

KV-D3431D

RM-811

SERVICE MANUAL

AEP Model
Chassis No. SCC-D93A-A



DE-2 CHASSIS

MODELS OF THE SAME SERIES

KV-D3431D	
KV-D3431A	

SPECIFICATIONS

Television system B/G/H

Color system PAL, SECAM, NTSC3.58, NTSC4.43

Stereo system German stereo

Channel coverage VHF : E2-E12 UHF : E21-E69
CABLE : S1-S41

Picture tube Trinitron tube
Approx. 86 cm (34 inches)
(Approx. 80 cm picture measured diagonally
110°-degree deflection)

Inputs ⚙ 1 21-pin connector :
CENELEC standard including RGB input.
⚙ 2 21-pin connector :
including S video input
⚙ 3 Video, Audio : phono jack.
4-Pin S. video input connector
Audio input jacks : phono jack

Outputs

21--pin connector : CENELEC standard
Headphones jack : stereo minijack
External speaker terminals : 2-pin DIN
Audio output jacks : phono jack
(output dependent upon TV settings)

Sound output 40 W + 40 W

Power consumption 153 Wh

Dimensions Approx. 778x660x580 mm (w/h/d)

Weight Approx. 73.0 kg

Supplied accessories RM-811 Remote Commander (1)
IEC designation R6 batteries (2)

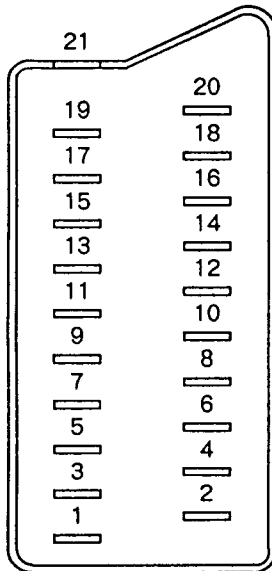
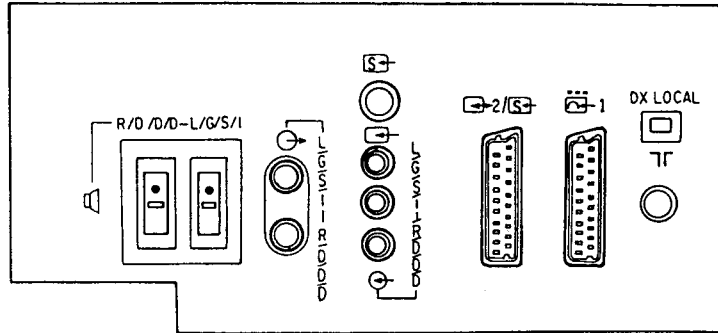
Design and specifications are subject to change
without notice.

TRINITRON® COLOR TV

SONY®



21 pin connector (①-1, ②-2)



Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
2	○	○	Audio input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3	○	○	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
7	○	●	Blue input	0.7V±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5-12 V): Part mode Low state (0-2 V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal: 0.7V±3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	-	Red input	0.7V±3dB, 75ohms, positive
	-	○	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1-3 V) Low state (0-0.4 V) Input impedance: 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
20	○	-	Video input	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
	-	○	Video input/Y (S signal)	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
21	○	○	Common ground (plug, shield)	

○ connected

● unconnected (open)

* at 20 Hz-20 kHz


4 pin connector (③-4)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V±3dB 75ohm, positive Sync 0.3V $\frac{-3}{+10}$ dB
4	C (S signal) input	0.3V± 3dB 75ohm positive

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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

4

1-1. INDEX OF THE COMMAND ELEMENTS



Under the cover

Under the cover	
Symbol	Function
	Program key
	Programming: FF and REW search keys
	Programming: Memory key
	Programming: TV norm, no function on this unit
... (three dots)	Programming: zero adjustment, set the search unit at the beginning of the VHF frequency band
MEM	"Intelligent" remote control: memory/function indication
VIDEO 1/2/3 MDP	"Intelligent" remote control: commutator for supplementary units
PROGR + / -	"Intelligent" remote control: program change of the video/MDP unit
◀, ▶, ▶▶, ■, ●, ■, ⏻ keys	"Intelligent" remote control: function keys for video/MDP unit
RESET	"Intelligent" remote control: cancelling of the memorized functions

Symbol

↑ + ④

↑ + ⊗

↑ + 



↑ + ↻

DEMO

5

↑ + ↻

1, 2...9, 0, ~~7~~

↑

1.

↑ + ↻

Q

6

A/1

V



C

⑤

↑

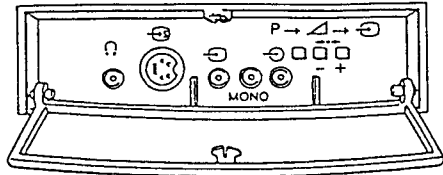
 $\ominus + / \cdot$

Δ+/-

PROGR + / -

The colour keys are destined for the televideo.

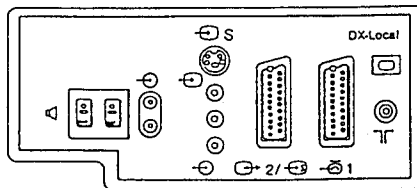
b) Keys and connections of the unit



Front vision of the unit

Symbol	Function
	Earphones jack
	Video S input jack
	Video input (yellow)
	Audio inputs (white and red)
	Selection key
	P: Program switching
	Volume
	Video input mode
A/B	Indications of two channels/stereo
	Standby indicator
	Infrared remote control sensor
	Power switch, activation/disactivation of the unit

Rear vision of the unit



Symbol	Function
	Connection jacks for external loudspeakers.
	Audio outputs (cinch jacks)
	Y/C input and video/audio input (cinch jacks)
	21 pin EURO-AV connection (with Y/C input)
	21 pin EURO-AV connection (with RGB input)
DX/Local	Antenna attenuator
	Antenna socket

Channel tuning

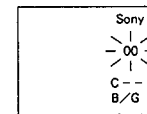
Use the remote control keys for tuning the channels. The remote control houses 60 programmable memory sections (00-59).

There are two ways in which to perform the adjustment:

a) Direct channel setting

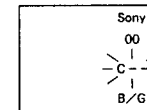
The desired channel number is known and can be directly introduced.

- 1) Turn the unit on using the power switch .
- 2) Press the program key . The program number will flash on the on-screen display.



- 3) Select the desired program place using the number keys or the PROGR + / - keys. As for program numbers that consist of two positions, first press the key and then the program number.

- 4) Press the C key. The "C" indicator will flash on the display together with two lines to indicate the channel number. Digit the two numbers of the desired channel using the number keys (e.g. 04 for channel 4). If the desired channel is a cable channel, press the C key twice. The "S" indicator will flash on the display together with two lines to indicate the channel number. Digit the channel number according to the previous description.

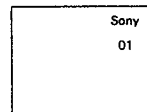


- 5) If the channel is to be memorized, press the memory key . Now, the program number no longer flashes. Is the channel is not to be memorized, repeat the sequence from item 2.
- 6) Repeat the operation from item 2 if you want to memorize other channels.

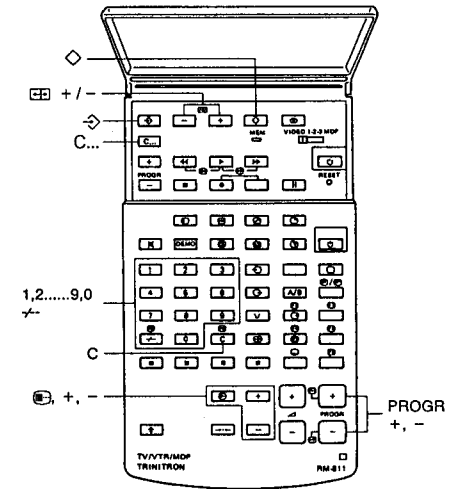
b) Automatic channel search

The TV set automatically searches those channels that can be received in your area (in the case of cable channels, also the respective cable channels).

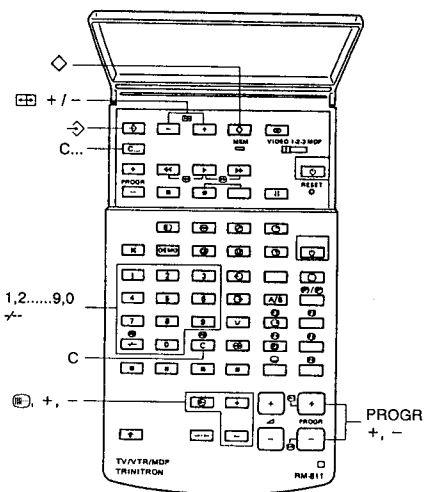
- 1) See "Direct channel setting".
- 2) See "Direct channel setting".
- 3) See "Direct channel setting".
- 4) Activate the automatic search using the + or - keys. "+" to advance the number (higher frequencies) "-" to decrease the number (lower frequencies). Using the C key, the search system returns to the beginning of the VHF frequency band.
- 5) If you want to memorize the tuned channel, press the memory key . If you do not wish to memorize the channel, repeat the memorizing operation from item 4.
- 6) If you want to memorize other channels, repeat the operation from item 2.



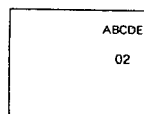
Note:
Press the key again to leave the programming mode without memorizing any channel.



1-2. SUPPLEMENTARY FUNCTIONS



- 5) Press the memory key \diamond to memorize the channel name.



b) Cancelling the undesired program positions

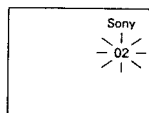
Thanks to the C key, your unit offers the possibility to cancel the program positions in which you have not memorized any channel during the passage with the PROGR keys.

- 1) Press the program key \rightarrow .
- 2) Select the program position that is to be cancelled using the number keys or the PROGR +/- keys.
- 3) Press the C key.
- 4) Press the memory key \diamond to leave the programming mode. The cancelled program positions can still be recalled using the number keys.

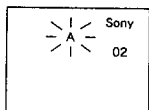
a) Individual assignment of the program name

Your new Sony TV set offers you the possibility to assign individual names to the memorized programs. This name will appear in the top right corner of the screen for a short while every time that you turn the TV set on or when you change program.

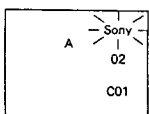
- 1) Select the program to which you wish to assign a name, using the number keys.
- 2) Press the program key \rightarrow .



- 3) Press the \boxplus key. Use the + or - key to select the first letter of the name (number or letter: 0-9, A-Z, - for empty space).



- 4) Press the \boxplus key again. The indication will skip to the next position, which is to be digitized as the first one. In this way, you can set the five letters of the channel name.



c) Manual fine tuning

If you have memorized a channel, the reception of which is not optimal, the automatic fine tuning might be deactivated. In this case, press the \boxminus or + keys. If the channel is recalled again using the correct program number, the automatic fine tuning will start again.

d) Direct channel selection in the TV mode without memorizing the channels

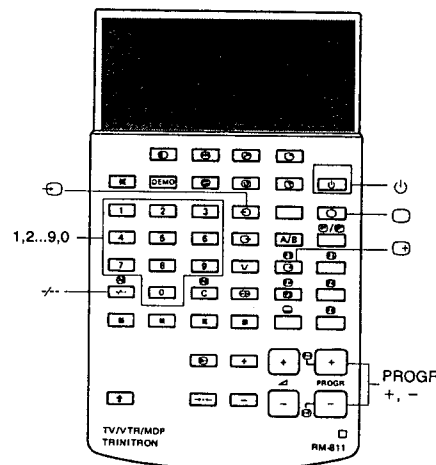
In the normal TV mode, you have the possibility of recalling other channels without memorizing them. The recalled channel will then be cancelled when you change program or when you turn the unit off.

- 1) You are watching a TV program. If you want to select a channel directly, press the C key (for cable channels, press the key twice).
- 2) Digit the two figures of the channel number (e.g. 02 for channel 2).

Usage of the TV set

1-3. BASIC FUNCTIONS

The remote control is the central control unit of your TV set, with which all the command functions are performed. The unit contains an infrared sensor \boxminus that receives the remote control signals. The most important functions can also be operated directly on the command section of the unit itself.



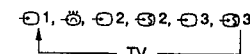
- **Activation and disactivation**
Activate and deactivate the TV set pressing the power switch \odot on the unit.

- **Standby mode**
If you deactivate the unit for a short while only, you can do so using the standby key \odot of the remote control. The unit will then stay in the standby mode and you can activate the TV set pressing any number key or the TV \square key. When the unit is in the standby mode, the \odot indicator will light on the unit.

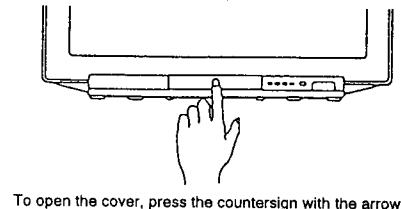
- **Program selection**
 - a) Using the number keys 1, 2...9, 0.
For selecting programs that consists of two numbers, first press the \boxminus key and then the number keys.
 - b) Using the program passage keys PROGR +/- .
+ : Higher program numbers
- : Lower program numbers
 - c) Using the panel of the unit itself.
Press the program passage keys - / + .

- **Informative indication on the screen**
If you press the display key \boxminus , the various information indications will appear briefly on the screen. If you press the key again, the number and the name of the program will remain visualized on the screen until you press the key another two times.

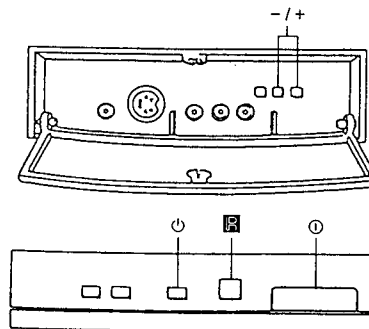
- **Switching of the signals of a connected**
Unit press the \boxminus key on the remote control until you see the desired symbol appear on the screen:

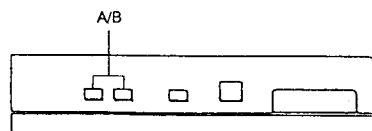
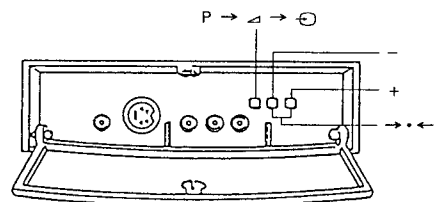
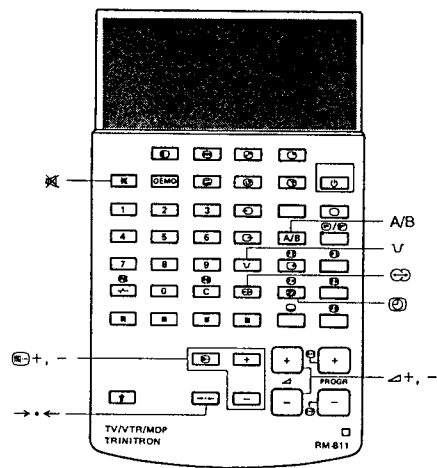


In connection with this, see "Connection of other units".





To open the cover, press the countersign with the arrow.






- **Modification of the Image and sound adjustments**
The modifications will be visualized on a scale on the screen.

Volume

Using the + key , the sound will be recorded at a higher volume level. Using the - key , the sound will be recorded at a lower volume level.

On the unit itself:

Use the P key $P \rightarrow \triangle \rightarrow \ominus$ to select the volume \triangle and to memorized the desired volume level with the $+/-$ keys.

For all the other corrections of the image and sound
Select the function that you wish to modify first with the  key:
① contrast, ② colour, ✱ brightness, ③ colour shade (for NTSC), ④ bass, ⑤ treble and ⑥ balance.

Thereafter, record the desired value with the + or - key.
If the normal values that have been memorized in the factory are to be cancelled, press the $\rightarrow \bullet \leftarrow$ key on the remote control and press the - and + keys on the unit simultaneously.

- **Sonic playback type**
Stereo transmissions

During the reception of stereo transmissions, the two indicators A/B will light on the unit.



Transmissions that are broadcast over two channels

For the reception of transmissions that are broadcast over two channels (when the transmission is broadcast in two languages), the desired channel can be selected using the A/B key on the remote control. In case you choose channel A (synchronisation), the A Indicator will light on the unit, whereas if you choose channel B (original tone), the B Indicator will light. The individual selection of the sound can also be performed while using the earphones or the videorecorder (with the A/V jacks).

Spacial sound/tone adjustment

Use the key on the remote control to activate and deactivate the spacial sound (or indication on the screen).

Use the **u** key on the remote control to activate and deactivate the tone adjustment (increase of bass and treble). (**u** or **u** indication on the screen.)

- **Sound disactivation**
Press the  key on the remote control to disactivate the sound of the TV set and reactivate it pressing the same key again.
- **Time indication**
If teletext is broadcast on the selected channel, press the  key on the remote control to visualize the time indication on the screen. Press the same key again to cancel the time indication.


1-4. SPECIAL FUNCTION

a) Image-in-the-image

With the image-in-the-image function, you have the possibility of inserting up to four small images in the image of the TV program so as to visualize other channels or video sources without switching the program.

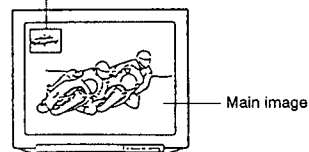
- Insertion and elimination of the small image

The small image will appear in the upper left corner of the screen.

Press the  key (you can choose four small images pressing the key repeatedly).

Press the key to cancel the operation.


Small image






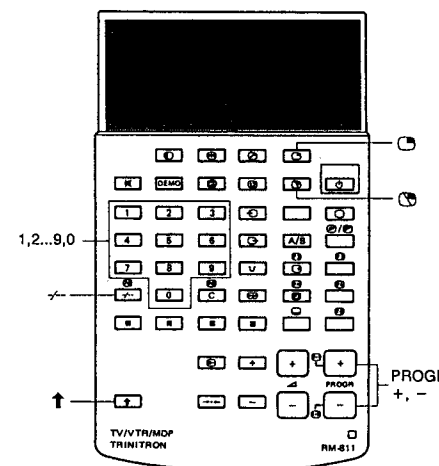
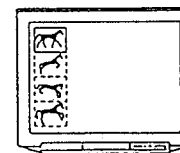
- Program selection of the small image

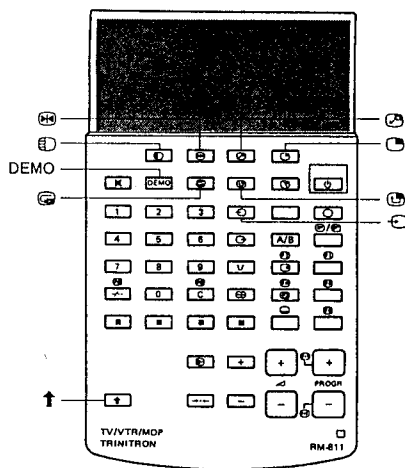
- Insert the small image.
- Press the \uparrow key (the \uparrow symbol will appear in the lower left corner of the screen). Select the desired program for the first small image using the number keys. Repeat the a) and b) operations for every other small image.
- Select the program with the number keys or the PROG \pm key.

- Programming of four small images

Using the  key you can insert up to four small images. The programs for the small images can be recorded in the following way:

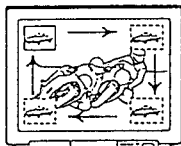
- a) Press the  key.
b) Press the  key (the  symbol will appear in the lower left corner of the screen). Select the desired program for the first small image using the number keys. Repeat steps a) and b) for the other small images.



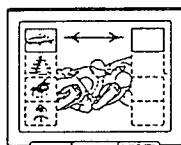


• Modification of the position of the small image

Select the position pressing the key. There are four possibilities for inserting a small image:

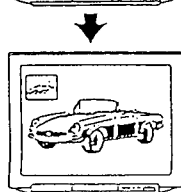
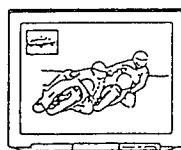


For many small images there are two positions possible.



• Substitution of the main image and of the small image

- Inserting the small image (key).
- Press the key.



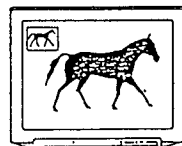
• Small fixed image

The small image is "frozen".

- Insert the small image (key).
- Press the key. Press the same key again to deactivate the function.

• Sequence of fixed images (only with the image-in-the-image function deactivated)

Four fixed memorized images will be repeated in the main image. Press the key. Press the same key again to deactivate the function.



• Program Index

All the program positions that have not been cancelled and all the video inputs will be connected sequentially. Press the key. Press the key to deactivate the function.

• Program Index of the four small memorized images

The four memorized programs of the small image are automatically up-dated sequentially.

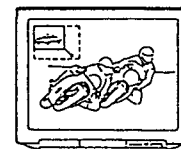
- Press the key.
- Press the key.
- Press the key to deactivate the function.

• MEMO mode (only with the image-in-the-image function deactivated)

Press the DEMO key. Now, a selection of image-in-the-image function will appear automatically on the screen. Press the key to cancel the function.

• Increasing the size of the small image

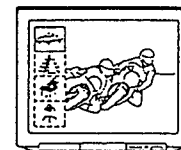
- Insert the small image.
- Press the key.
- Press the key. Repeat the operation from item b) to deactivate the function.



• Updating of the small images

To insert more small images, the updating can be performed as follows:

- Press the key.
- Press the key. Now the following small image will be updated.



• Stroboscopic effect

With this effect, the movements of the small image can be represented in snapshots at four different speeds.

- Insertion of the small image.
- Press the key.
- Press the key. Repeat the b) and c) operations until the desired stroboscopic speed is recorded. Press the key to deactivate the function.



• Control of an AV connection of the small image

- Insert the small image (key).
- Press the key.
- Press the key. The last AV connection used will be inserted. For the selection of another input, repeat the b) and c) operations until the desired input is indicated. Press the key to deactivate the function.

• Modification of the colour of the frame of the small image

- Insert the small image (key).
- Press the key.
- Press the key. Repeat points b) and c) until the desired colour appears on the frame.

(Blue-black-white-yellow-cyan-green-pink-red)



1-5. INTELLIGENT REMOTE CONTROL

Using the remote control of your Sony unit, you have the possibility of controlling up to four audio and video units with the advantage that you can operate various units using one remote control.

1) Usage of the Sony video tape recorders/video disc players

For the majority of the Sony video tape recorders/video disc players, you can use the remote control without programming the functions. Switch the VIDEO 1/2/3/MDP in the desired position to do so.

Video 1: Video tape recorder Sony 2 Betamax and Sony VHS FLV 202

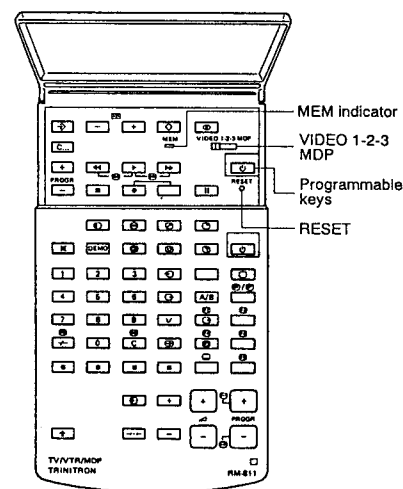
Video 2: Video tape recorder Sony 8 mm

Video 3: Video tape recorder VHS Sony

MDP: Sony video disc player
(also multiple video disc player)

After having selected the desired unit, you have the subsequent functions at your disposal:

- ◀ Fast backward
- ▶ Playback
- ▶▶ Fast forward
- Stop
- Recording
- ⏻ Activation/disactivation of the unit
- ⏸ Pause

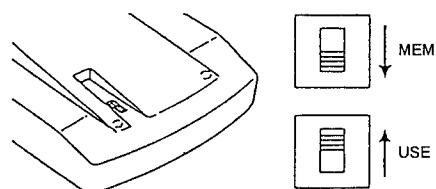


2) Controlling units of other brands

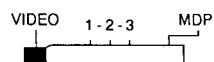
The remote control of your unit can memorize the functions of other remote controls. You can memorize one function on each of the programmable keys.

a) Switch the USE/MEM key to the MEM position (memorize).

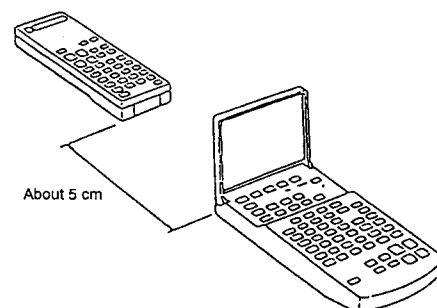
Rear vision



b) Switch the VIDEO 1/2/3/MDP switch to the desired position (independently of the type of the supplementary unit)



c) Put the remote control of the supplementary unit at a distance of about 5 cm from the remote control of the TV set. / Do not move the remote controls during the programming.



d) Press the programmable key on which you wish to memorize the function and press simultaneously the key on the remote control of the supplementary unit containing the function to memorize. Press the keys until the MEM indicator turns off. If you have pressed a key, the function of which can be memorized, the MEM indication will flash eight times, after which it will turn off.

e) Repeat items 2 and 4 for each other function to memorize.

f) Switch the USE/MEM switch to the USE position (remote control).

Advice

- For products of other brands, switch the VIDEO 1/2/3/MDP to the position that is not used for the Sony units.
- For the usage of a supplementary unit, the VIDEO 1/2/3/MDP must be in the position in which it was during the memorizing.
- In order to facilitate the usage, the new functions are memorized on the relative keys on the remote control RM 811 (e.g. playback of the video tape recorder on the playback key ▶).
- You can also memorize functions of audio units.

Warnings

- If you change the batteries of the remote control, the functions will stay memorized for about 30 minutes.
- After the memorization, control the memorized function, since it might happen with units of other brands that some of the functions are not accepted.
- If the memory is full, the MEM indicator will light.



Cancellation of the memorized functions

- 1) Switch the USE/MEM switch to the MEM position.
- 2) Switch the VIDEO 1/2/3/MDP to the position of the desired unit.
- 3) Press the RESET key with a pointed object (e.g. a ballpoint pen). Now, all the functions are cancelled. The MEM Indicator will illuminate briefly, after which it will turn off. The functions which control the supplementary Sony units will still remain memorized.


1-6. TELETEXT

Your Sony TV set has been equipped with a decoder for teletext signals. The keys have been countersigned in green on the remote control. Teletext is an information service which is furnished without any charge from the TV companies. In order to switch the teletext reception to another channel, you must first return to the TV mode and select another channel.

Recalling the teletext

- Select the desired channel using the number keys.
- Press the  key. If the teletext is broadcast, the index page will be visualized on the screen. If not, the indication P100 will appear in the upper corner of the screen. Press the  key again to insert the TV image in the background added to the teletext image.



Returning to the TV mode

Press the  key to exit from the teletext mode and to return to the normal TV mode.


• Selecting the pages

Digit the three figures of the desired page using the number keys. If you were to make an erroneous sequence, complete the three figures of the number and then digit the correct number. Now, the page counter of the teletext will search the page until it is found, after which the page will be visualized on the screen.



• Selection of nearby pages

Nearby pages can be quickly selected with the  key (return one page) and the  key (return one page).


• Return to the Index page

Using the  key, the index page (contents index) can be recalled without digiting the figures.



• Inserting the TV image

During the teletext mode, there is the possibility of switching to the TV image while the system searches a selected page. In this even, press the  key. Once the page has been found, the page will be visualized on the left side of the screen. Press the  key to return to the teletext mode.


Double size text

Press the  key. Now, the upper half of the text will be doubled in size. Press the same key again to double the lower half of the text and press it a third time to return the text to its normal size.

Stopping the automatic change of the page





If a page of teletext is composed of several subpages, the change of the page can be avoided in the subsequent manner: press the  key. The symbol  will be visualized in the upper left corner of the screen. If you press the key twice, the inferior pages will be substituted again.

Recalling the subpages


A subpage can be recalled directly. Select the page with the subpages. Press the  key. Use the number keys to select the desired subpage consisting of four figures (e.g. digit 0001). If there is a subpage present, it will be visualized on the screen.

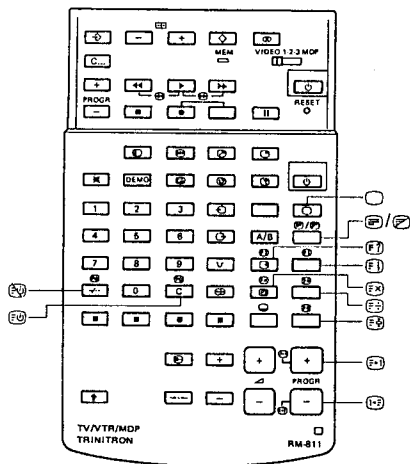
Recalling a programmed page

(Selecting a teletext page in a particular moment)

- 1) Select the teletext page with a time code (not accessible for all teletext services).
- 2) Press the  key.
- 3) Digit the four figures of the desired time using the number keys (e.g. 2030). Press the  key to return to the TV program. At the selected time, the number of the page will be visualized on the screen in the upper left corner and the page can be recalled with the  key. If the programming is to be cancelled, recall the page again and press the  key.

Visualizing hidden information (e.g. for quiz games)

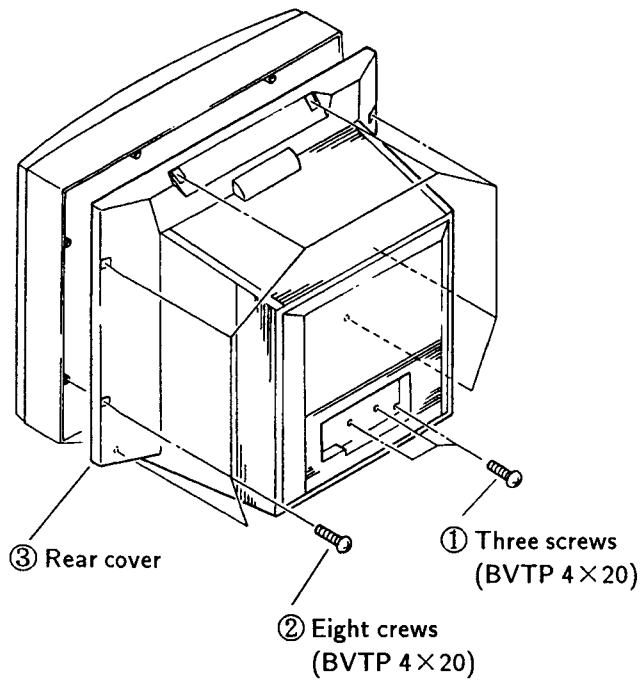
Press the  key. Press the key again, to cancel the hidden information.



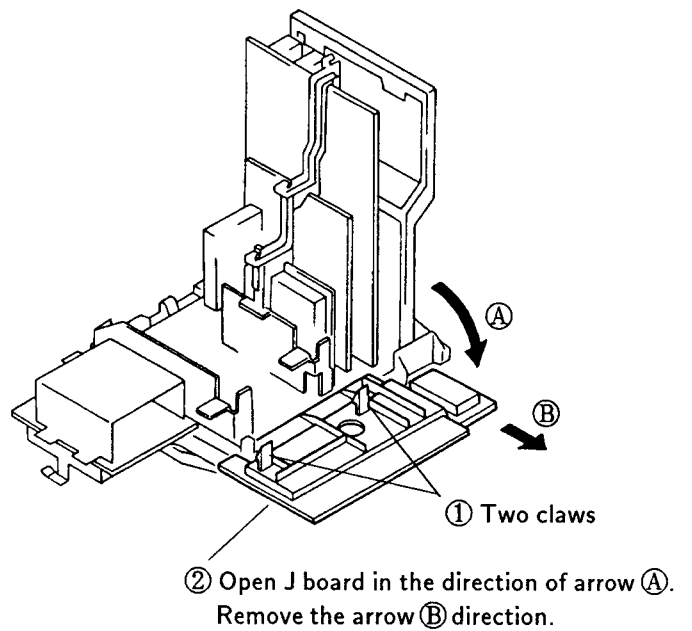
SECTION 2 DISASSEMBLY

KV-D3431D
RM-811

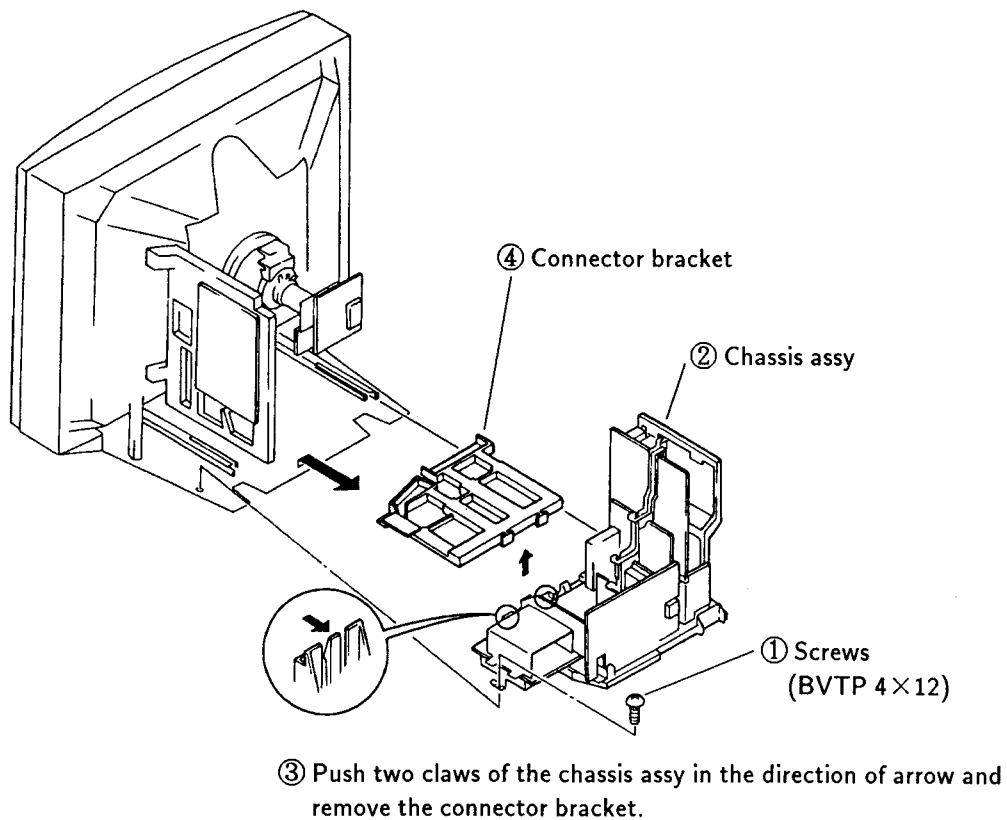
2-1. REAR COVER REMOVAL



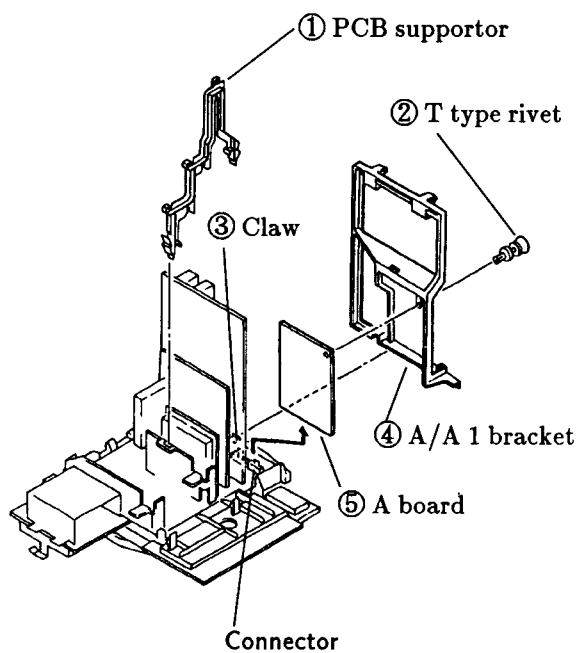
2-2. J BOARD REMOVAL



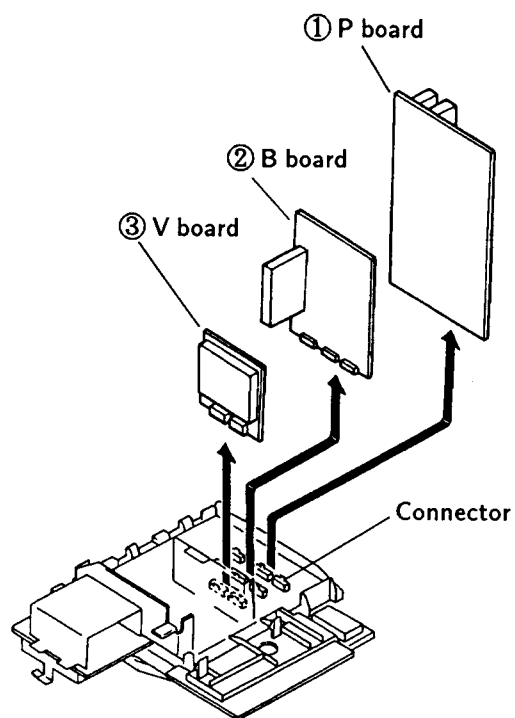
2-3. CHASSIS ASSY REMOVAL



2-4. A BOARD REMOVAL

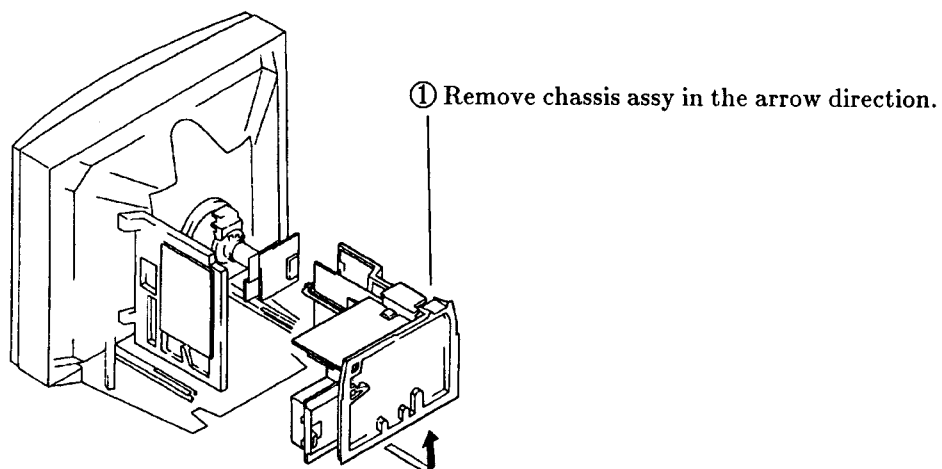


2-5. P,B AND V BOARDS REMOVAL

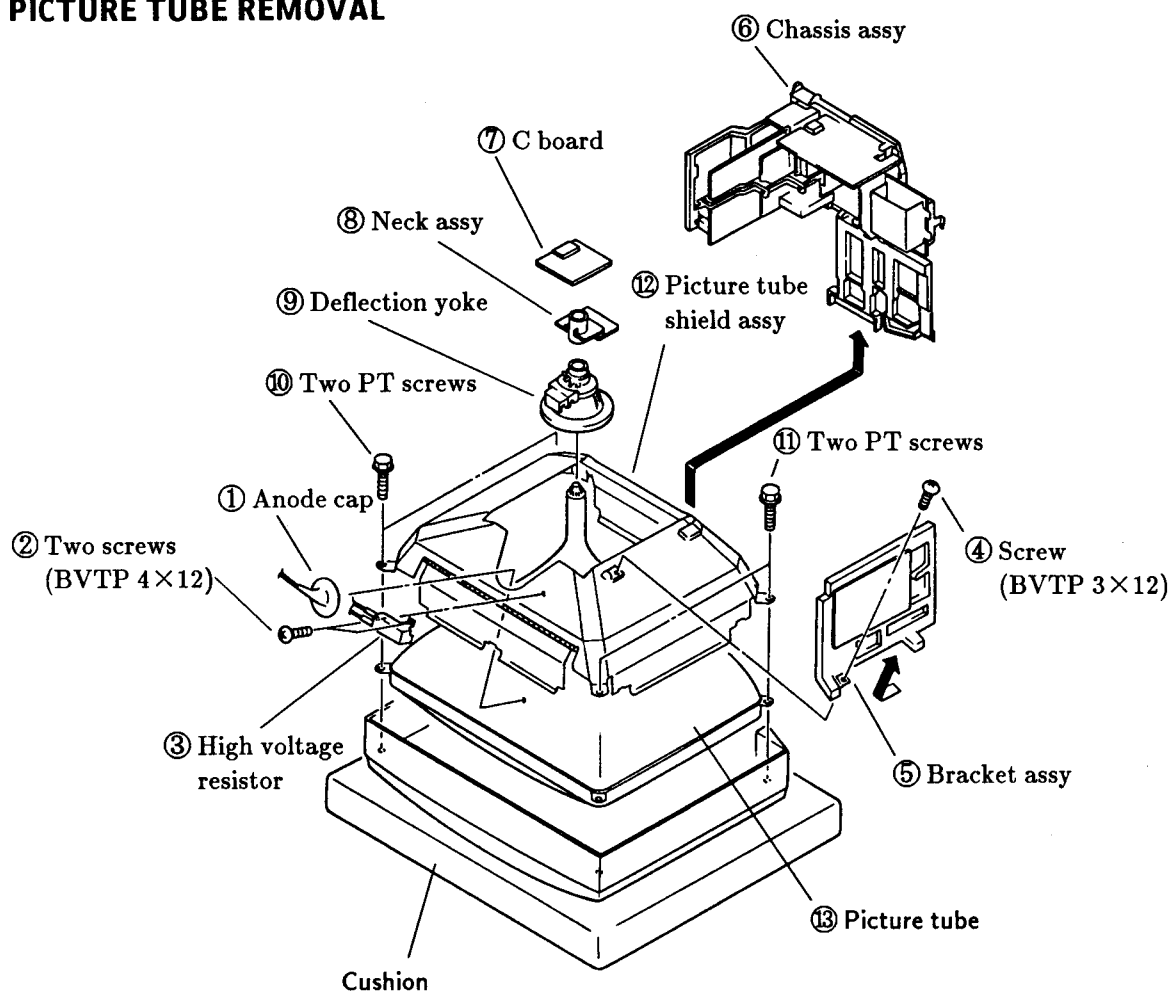


2-6. SERVICE POSITION

* Remove the connector bracket and then perform the following servicing.
(refer to 2-2. CHASSIS ASSY REMOVAL)

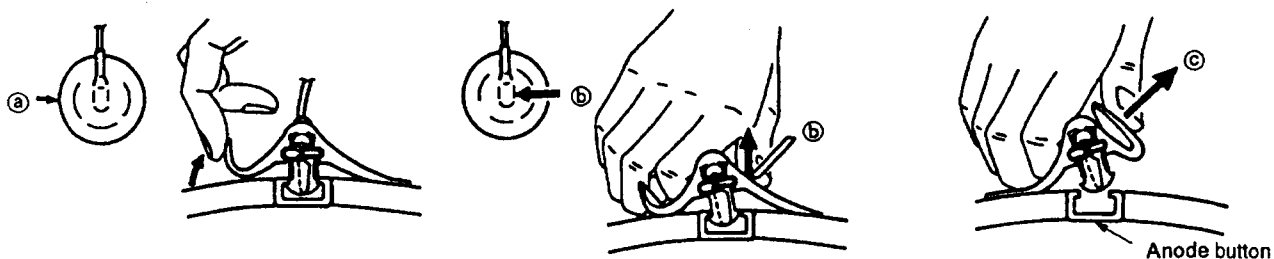


2-7. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

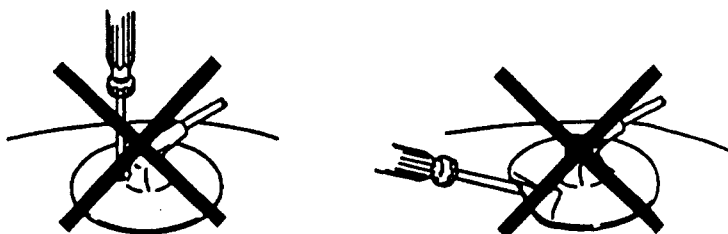
• REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
 - Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
 - Unless there is specific instruction to the contrary, set the controls and switches this way :
 - Contrast80%
(or remote control normal)
 - ☼ Brightness50%
 - Carry out the following adjustments in this order:
 1. Beam landing
 2. Convergence
 3. Focus
 4. White balance
- Note :** Testing equipment required
1. Color bar/pattern generator
 2. Degausser
 3. DC power supply
 4. Digital multimeter
 5. Oscilloscope

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
Contrast } normal
Brightness }
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
(See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 3-4.)

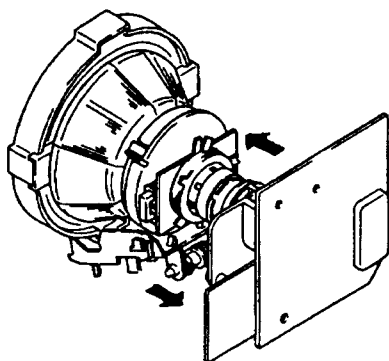


Fig. 3-1

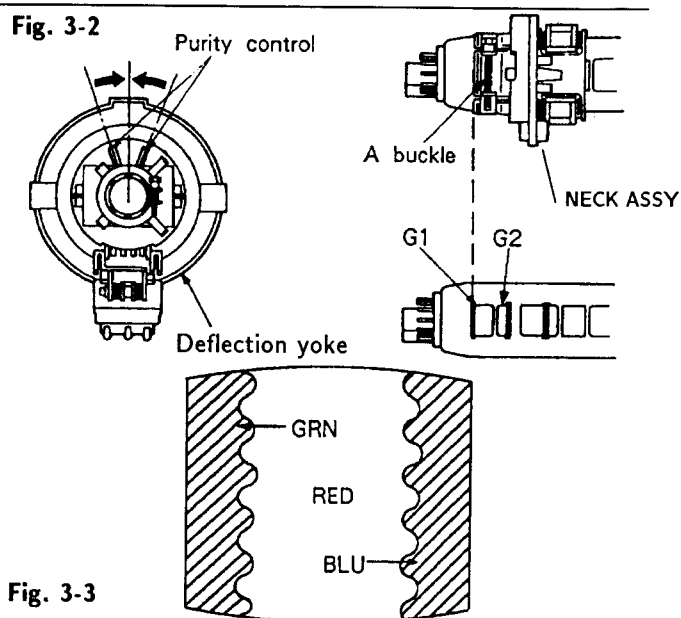


Fig. 3-3

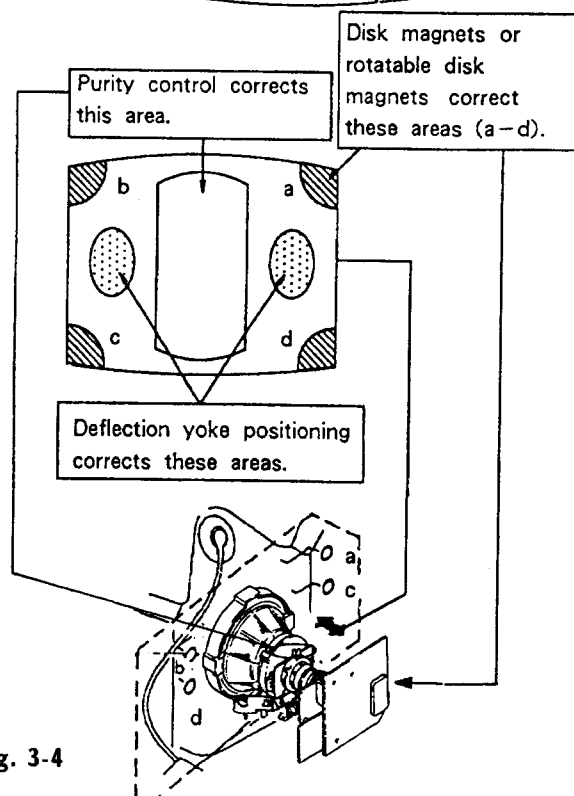


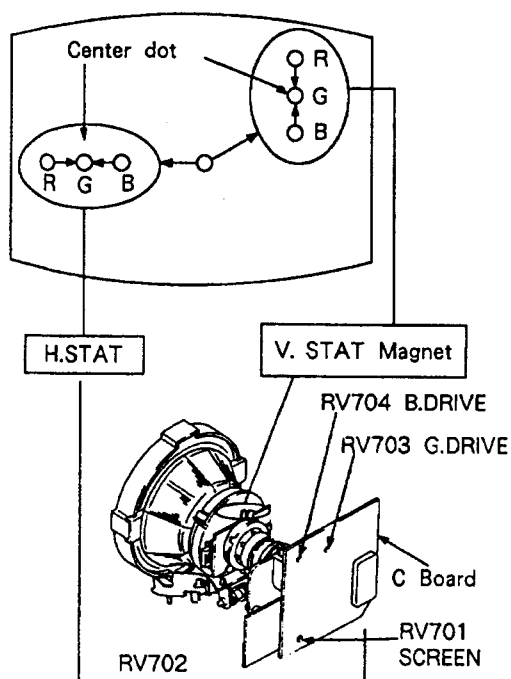
Fig. 3-4

3-2. CONVERGENCE

Preparations :

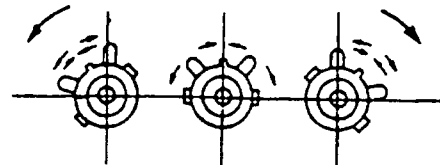
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

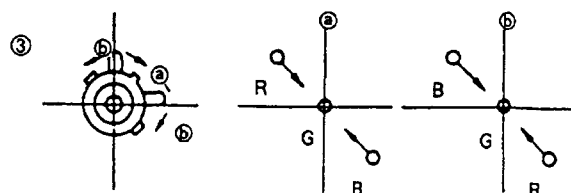
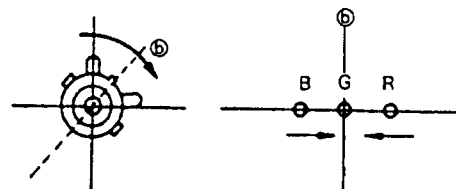
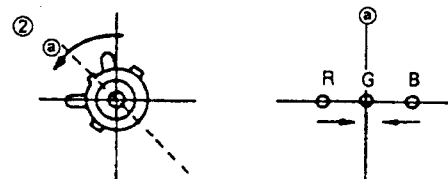
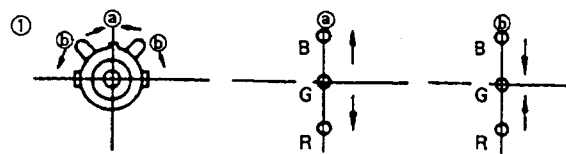


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

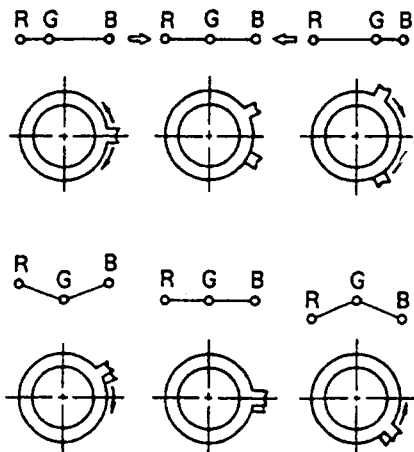
- Tilt the V. STAT magnet and adjust the static convergence by opening or closing the V. STAT magnet.



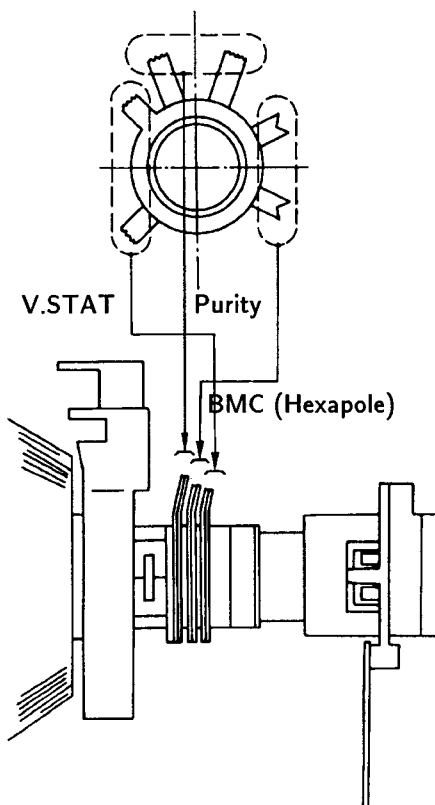
4. If the V. STAT magnet is moved in the direction of the ① and ② arrows, the red, green, and blue points move as shown below.



● Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving of each magnet interact so be sure to perform adjustment while tracking.
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction)



(2) Dynamic Convergence Adjustment

1. Adjust the Y.CROSS (RV1705) and Y.BOW (RV1702), so that RED and BLUE shown in Fig. 3-6 will become $a=b=c$.

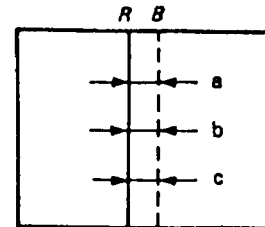


Fig. 3-6

2. Match the horizontal convergence at the center of the screen with H STAT VR.
3. Adjust the CORNER BOW (RV1703), so that RED and BLUE shown in Fig. 3-7 will become $a=b=c$ and $d=c=f$.

Note: At this point, if the proper relationship between $a=c$ or $d=f$ is not established, adjust the Y.CROSS (RV1705) again.

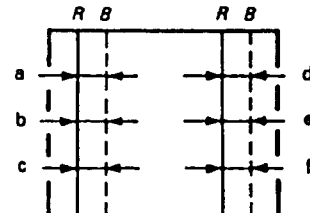


Fig. 3-7

4. Match the horizontal convergence at the center of the screen with the H STAT VR.
5. Adjust the H TILT (RV1701) so that the RED and BLUE shown in Fig. 3-8 will become $a=b$.

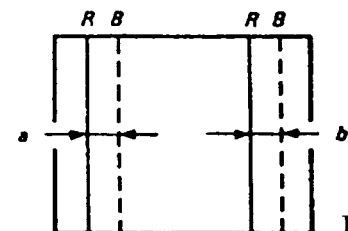


Fig. 3-8

6. Adjust the H AMP (RV1704) so that the RED and BLUE shown in Fig. 3-9 will become $b=c$

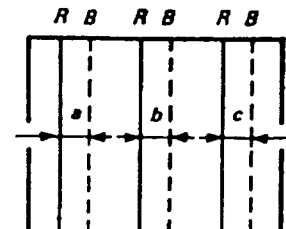
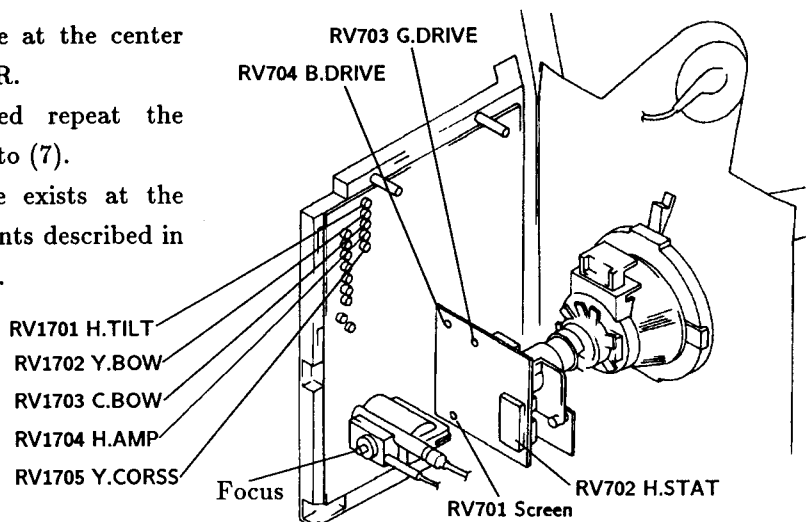
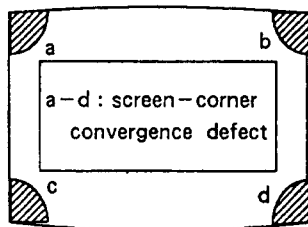


Fig. 3-9

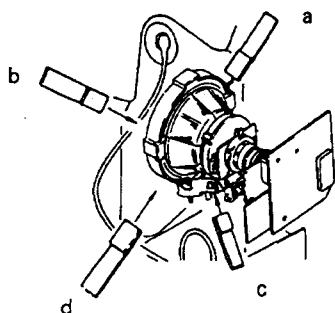
7. Match the horizontal convergence at the center of the screen with the H STAT VR.
8. When the H AMP is adjusted repeat the procedures described in Steps (5) to (7).
9. If divergence of the convergence exists at the corner of the screen, the adjustments described in Steps after (3) should be repeated.



(3) Screen corner convergence



Install the permalloy assembly for the section with faulty.



Permalloy

3-3. FOCUS

Adjust the focus to optimize the screen.

3-4. WHITE BALANCE

Screen G2 setting

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its minimum level.
3. Apply 180VDC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

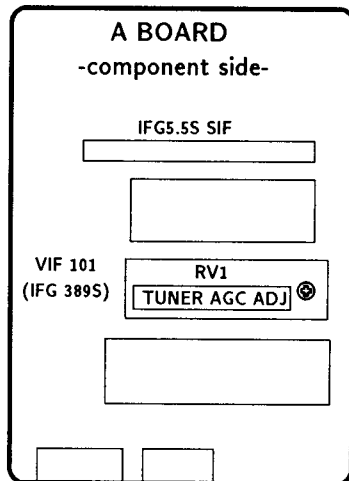
White balance adjustment

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4 CIRCUIT ADJUSTMENTS

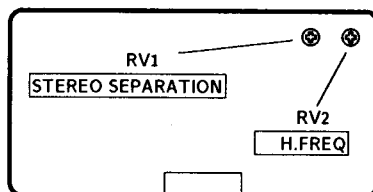
4-1. A BOARD ADJUSTMENT



TUNER AGC ADJUSTMENT (IFG 389S)

1. Tune in an off-air signal.
2. Adjust AGC VR (IFG389S) so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

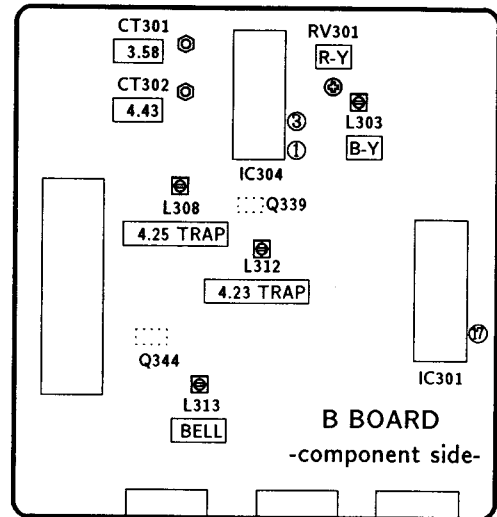
STEREO SEPARATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minnum.

H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper between pin⑫ IC4 and GND.
2. Connect a frequency counter to pin④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ) $15.625 \pm 50\text{Hz}$.
4. After adjustment, remove the jamper.

4-2. B BOARD ADJUSTMENTS



REF OSC NTSC 3.58 MHz Adjustment (CT301)

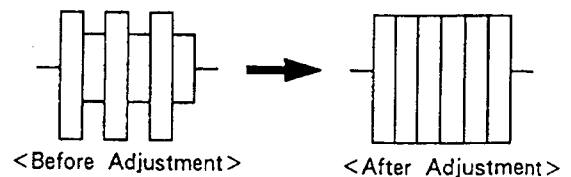
1. Input an NTSC 3.58 MHz COLOR BAR pattern.
2. Short circuit between pin ⑪ of IC301 and ground.
3. Adjust CT301 to get the slowest picture movement.
4. Remove the jumper wire from IC301.

REF OSC Adjustment NTSC 4.43 MHz Adjustment (CT302)

1. Input an NTSC 4.43 MHz COLOR BAR pattern.
2. Short circuit between pin ⑪ of IC301 and ground.
3. Adjust CT302 to get the slowest picture movement.
4. Remove the jumper wire from IC301.

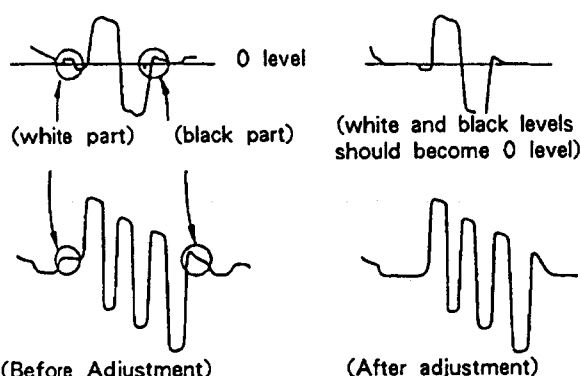
BELL FILTER ADJUSTMENT (L313)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q344.
3. Adjust L313 so that the waveform is flat.



**DISCRIMINATION ADJUSTMENT
(RV301 and L303)**

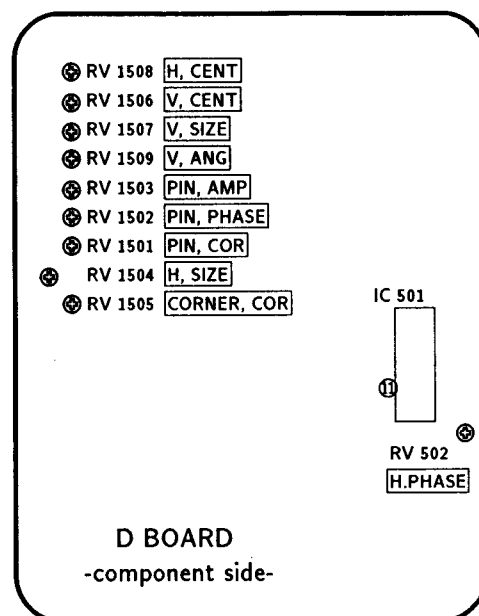
1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC304.
3. Adjust RV301 until the white and black sections of the waveform at pin ① are at the 0 level.
Connect the oscilloscope to pin ③ of IC304.
4. Adjust L303 until the white and black sections of
5. the waveform at pin ③ are at the 0 level.

**4.25 TRAP Adjustment (L308)**

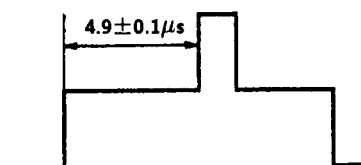
1. Input SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q339 emitter.
3. Adjust L308 so that the 4.25 MHz waveform is minimum.

4.23 TRAP ADJUSTMENT(L312)

1. Input SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q339 emitter.
3. Adjust L312 so that the 4.43 MHz waveform is minimum.

4-3. D BOARD ADJUSTMENTS**H.PHASE ADJUSTMENT (RV502)**

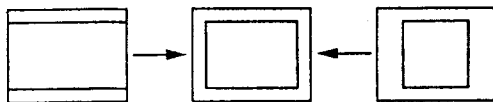
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to $4.9 \pm 0.1 \mu s$.



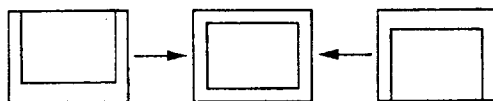
RV1508
H. CENT (HORIZONTAL CENTER)



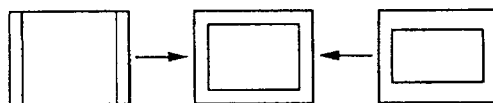
RV1504
H. SIZE (HORIZONTAL SIZE)



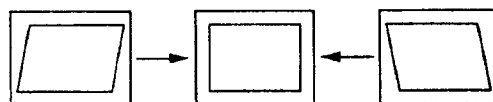
RV1506
V. CENT (VERTICAL CENTER)



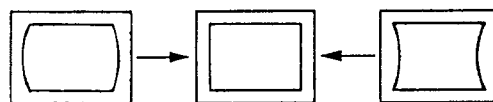
RV1507
V. SIZE (VERTICAL SIZE)



RV1509
V. ANGLE (VERTICAL ANGLE)



RV1503
PIN AMP (PINCUSHION AMPLIFIER)



RV1502
PIN PHASE (PINCUSHION PHASE)



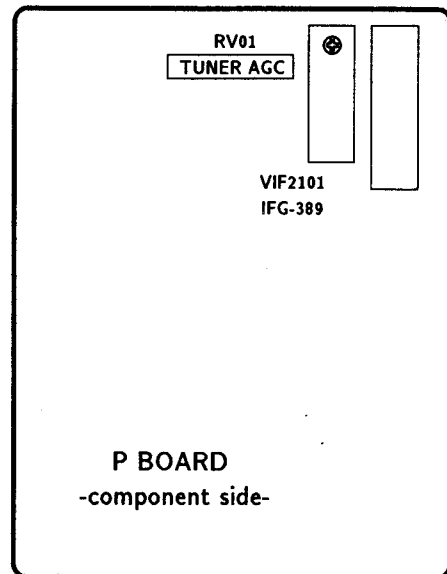
RV1501
PIN. COR (PINCUSHION CORRECT)



RV1505
CORNER. COR (CORNER CORRECT)



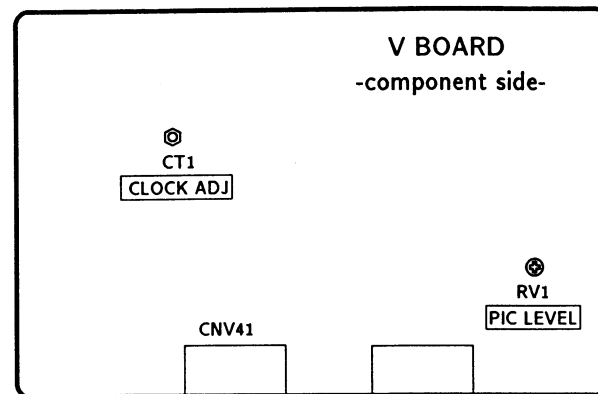
4-4. P BOARD ADJUSTMENTS



TUNER AGC ADJUSTMENT (RV01)

1. Tune in an off-arr signal.
2. Adjust AGC RV01 so that snow noise and cross-modulation just disappear from the picture.

4-5. V BOARD ADJUSTMENTS



CLOCK ADJUSTMENT (CT1)

1. Remove the CNV41 connector pin ③.
2. Put the system into text mode.
3. Adjust CT1 so that the picture does not move.

PIC LEVEL ADJUSTMENT (RV1)

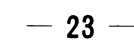
1. Maximize the picture setting.
2. Adjust RV1 so that the RGB output is 0.75V.

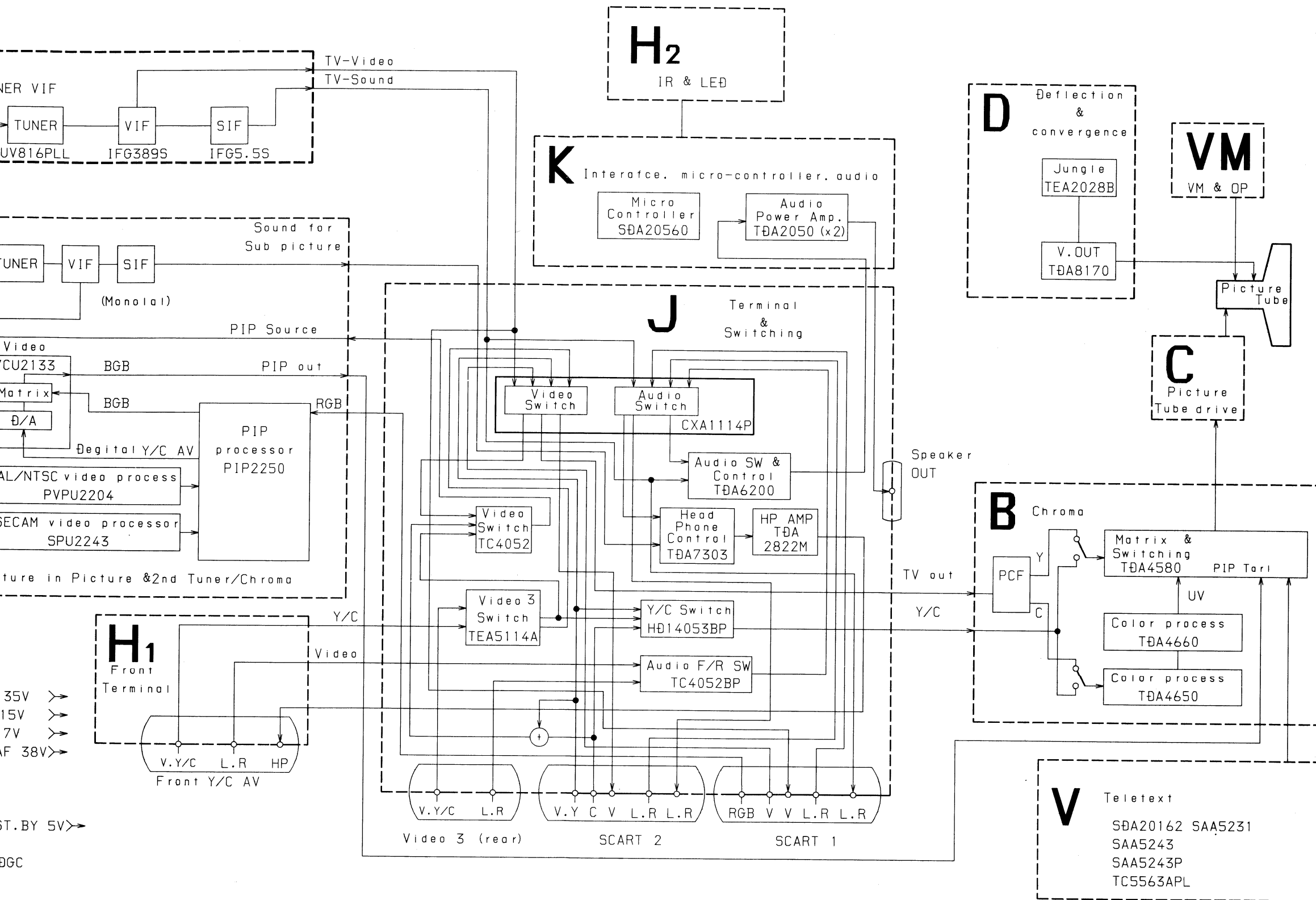
MEMO

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

5-1. BLOCK DIAGRAM (1)

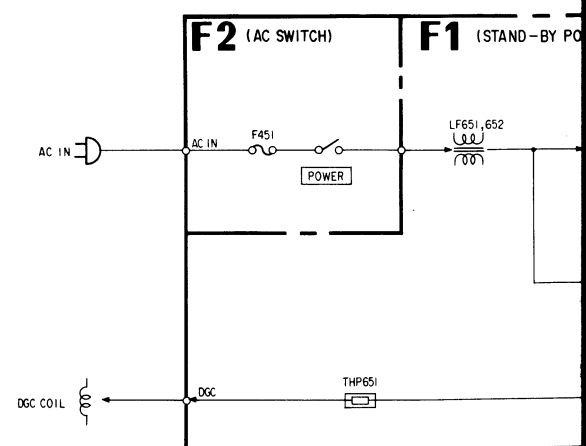
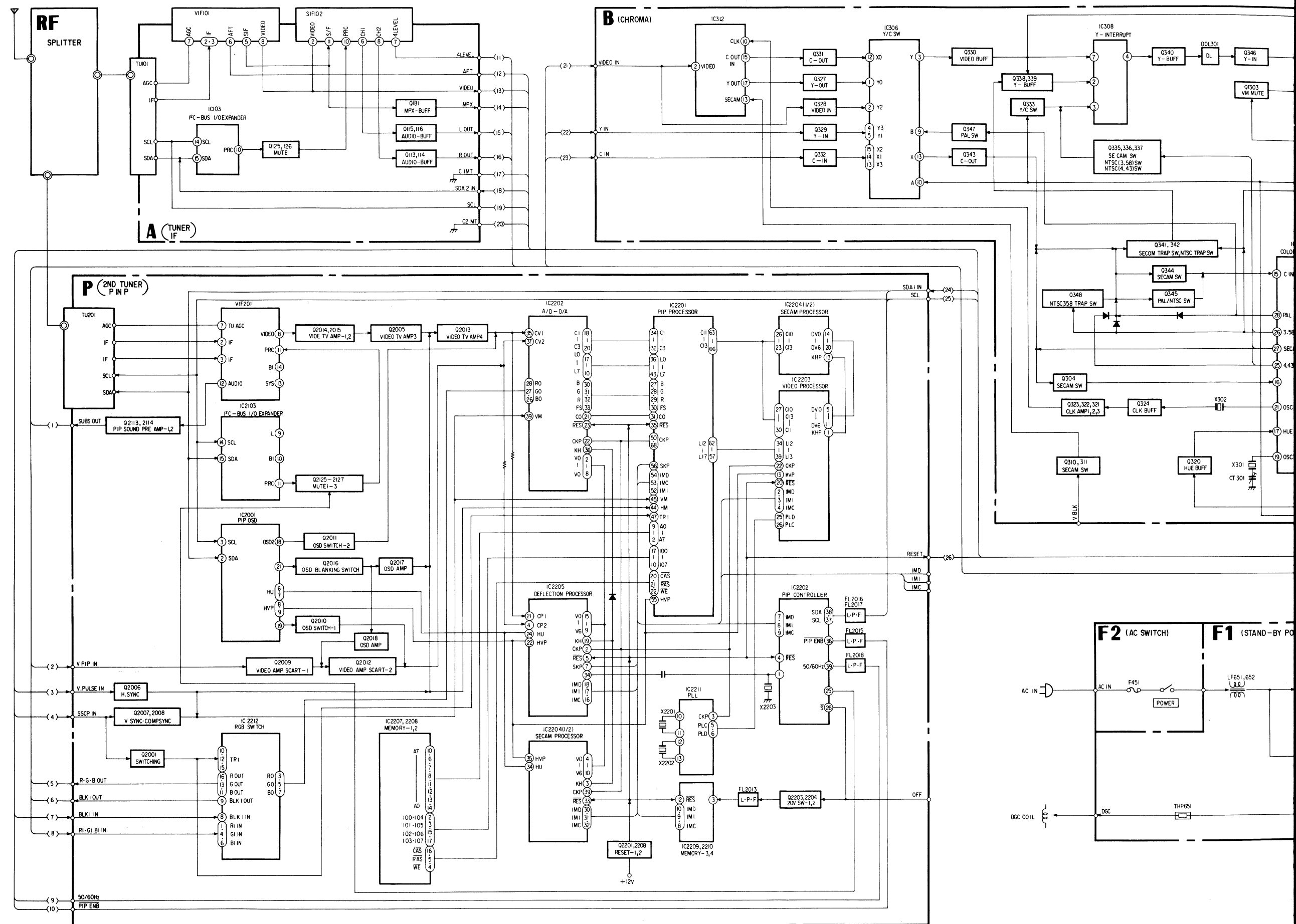
This image shows a full page of a handwriting practice worksheet. It consists of numerous horizontal dashed lines spaced evenly across the page, providing a guide for letter height and placement. The lines are light gray and extend from the left margin to the right edge of the page. There are no margins, text, or other markings on the page.



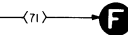


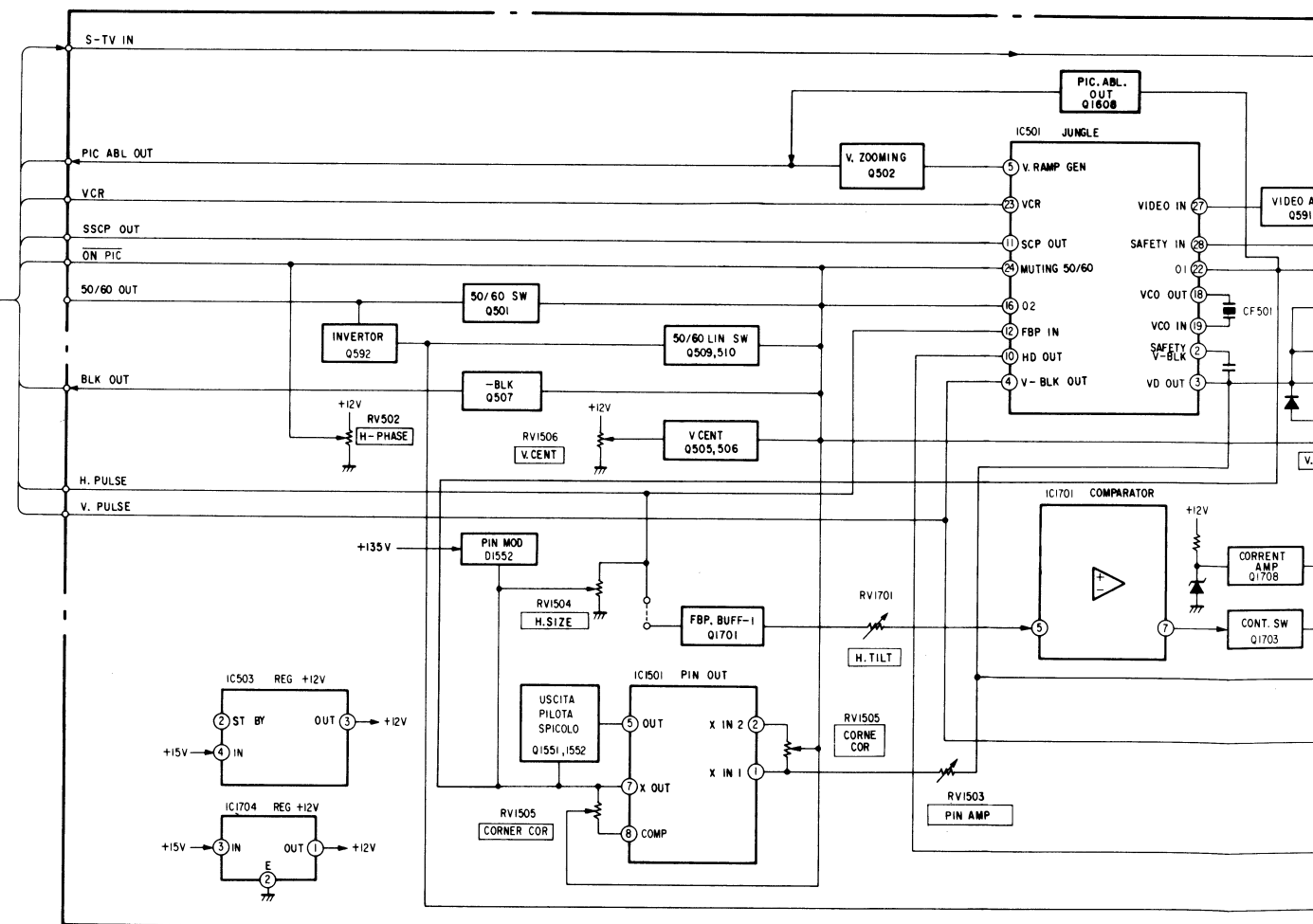
2
r SW

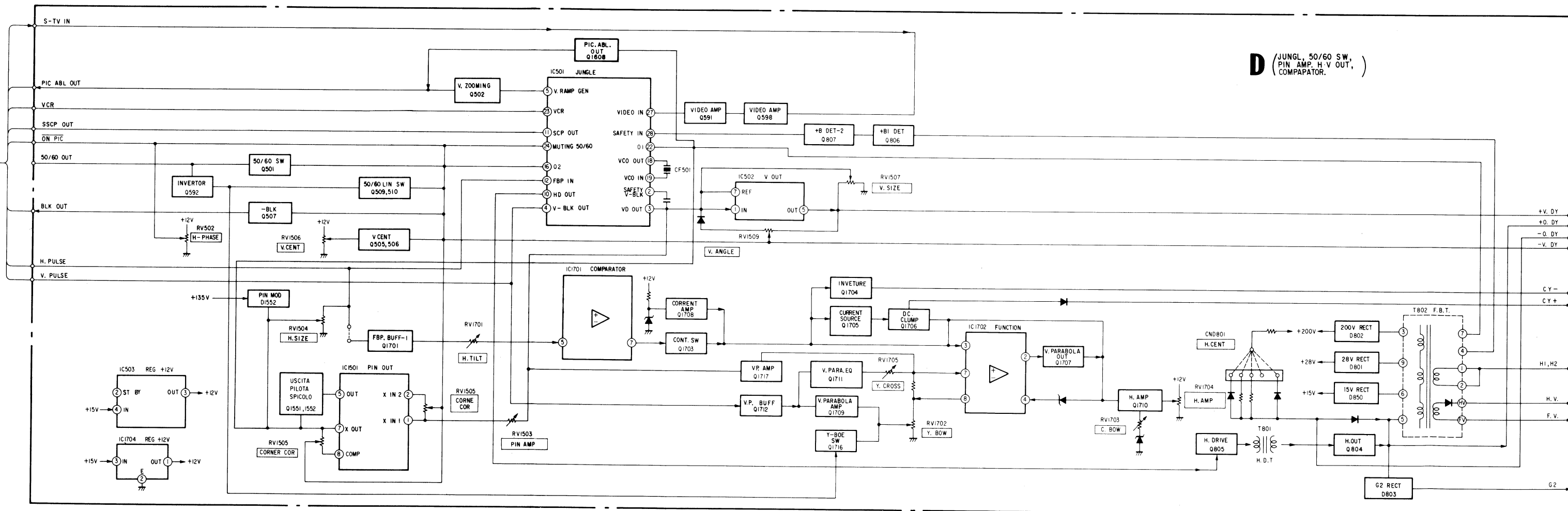
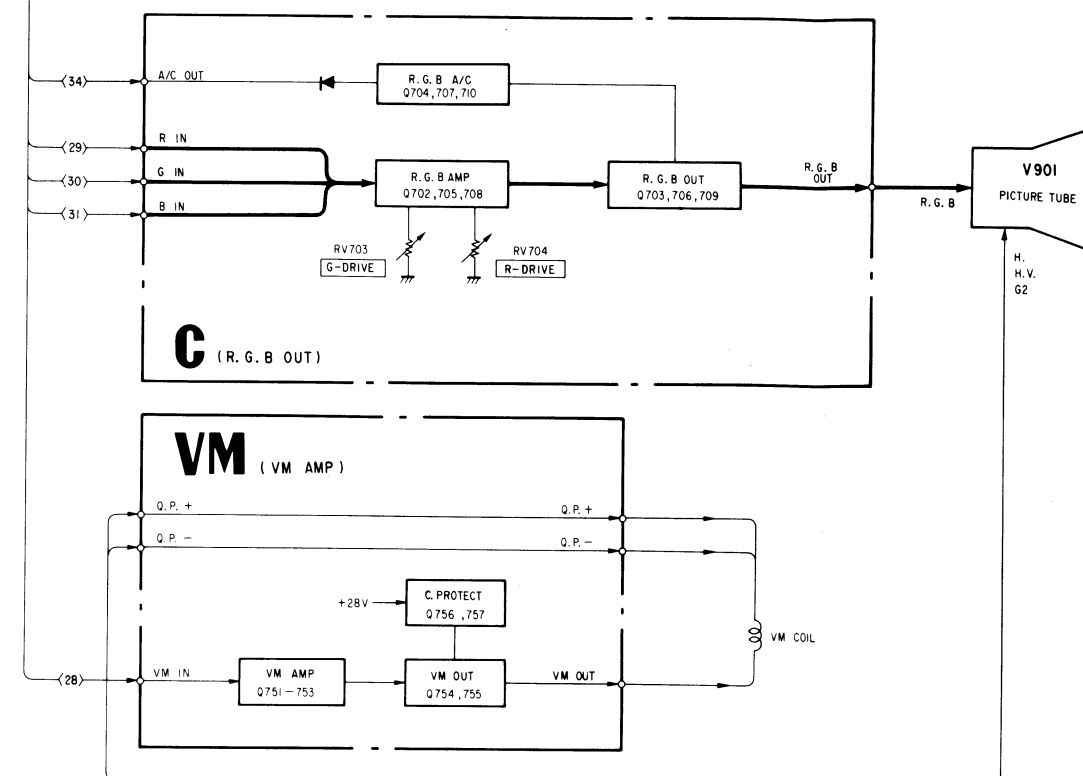
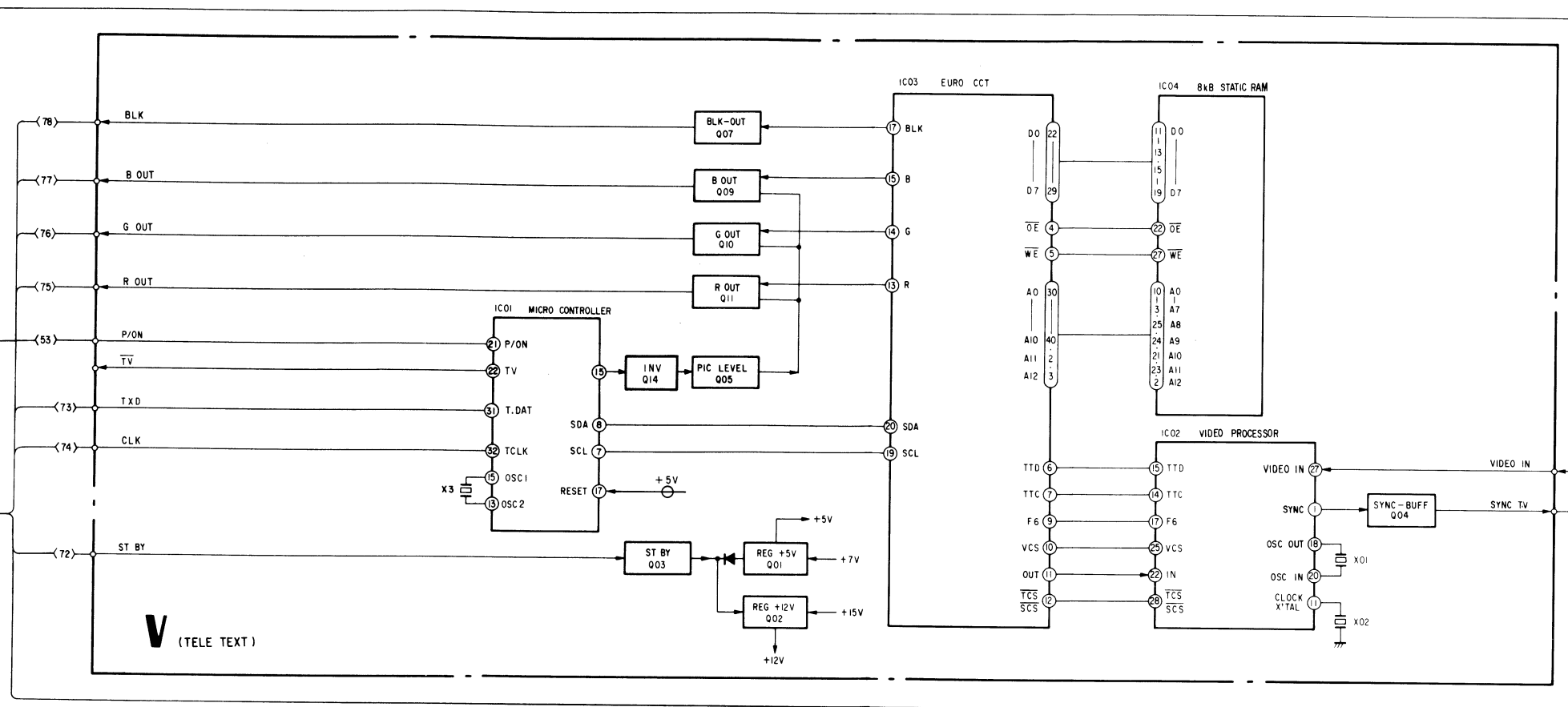
BLOCK DIAGRAM (2)

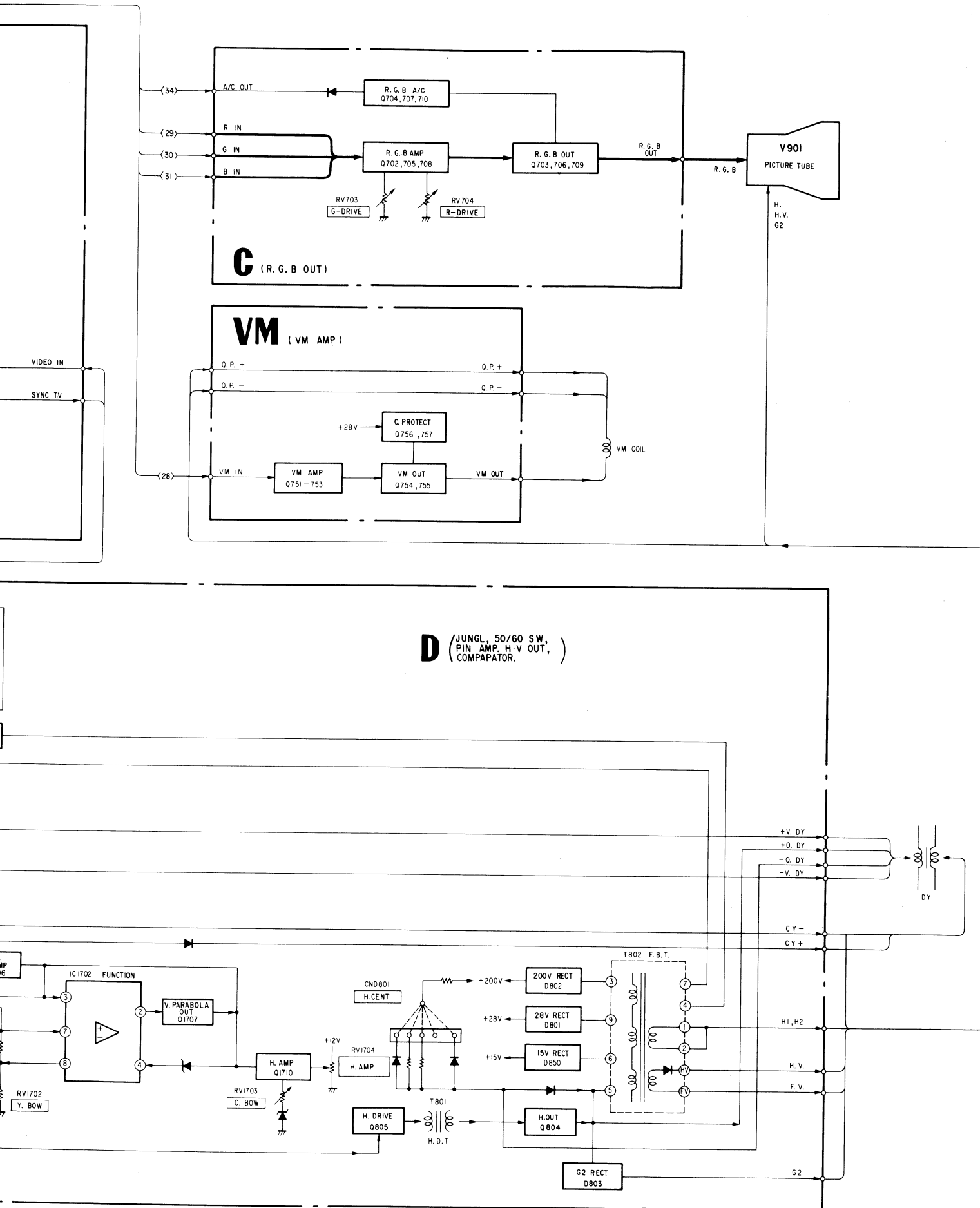




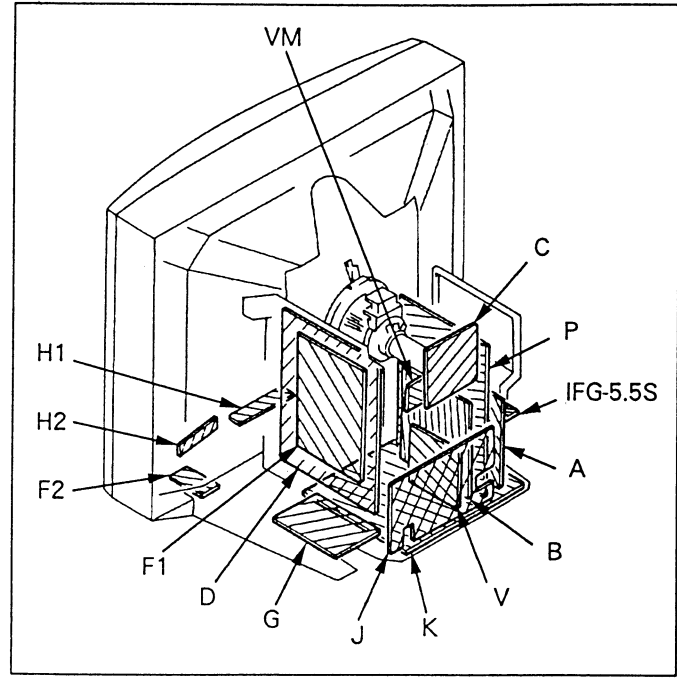















5-2. CIRCUIT BOARDS LOCATION



Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

- Note :
- All capacitors are in μF unless otherwise noted.
 $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.

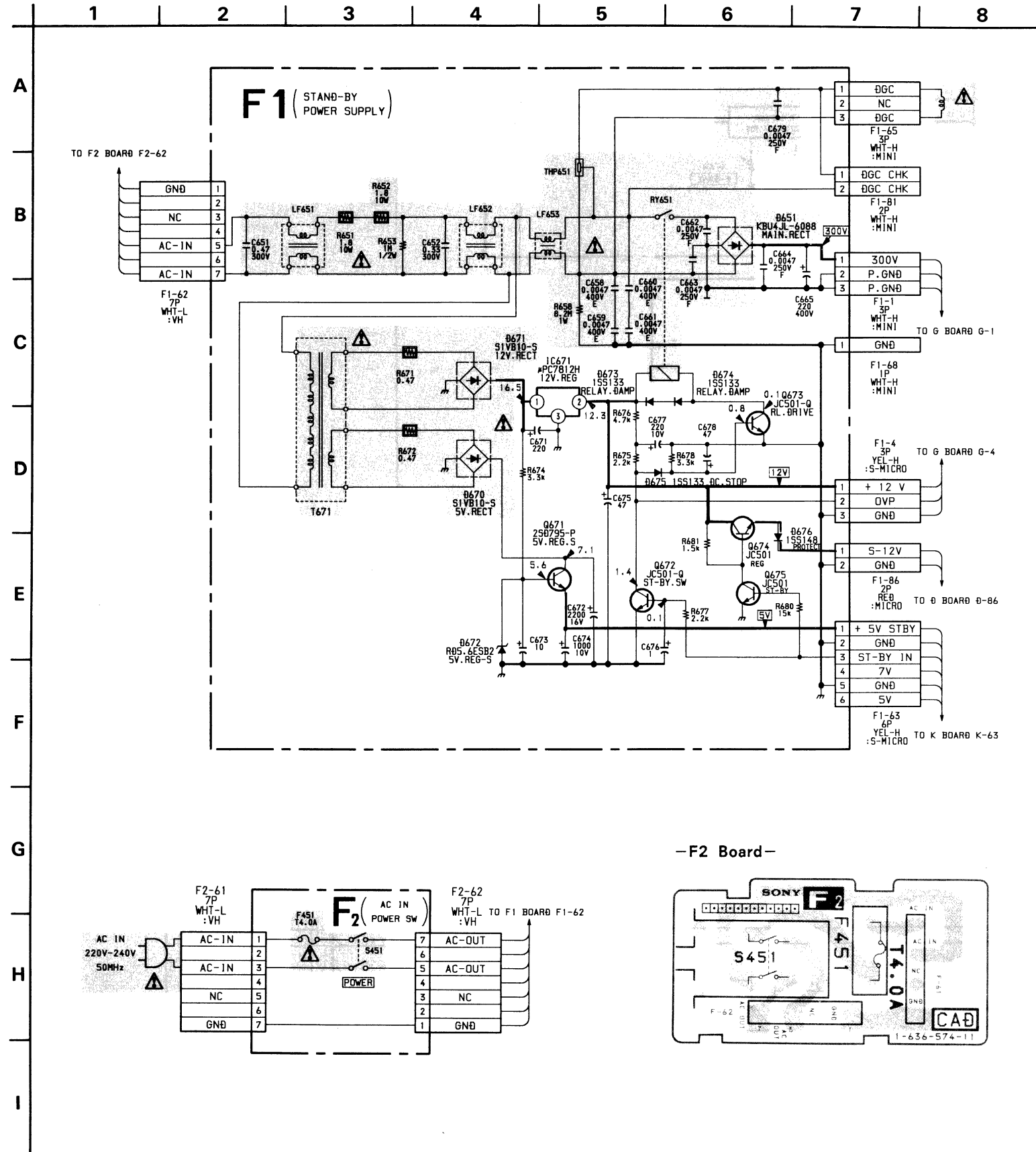
Pitch : 5mm
Rating electrical power : 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
-  : nonflammable resistor.
-  : fusible resistor.
-  : internal component.
-  : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B.unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  : B + line.
-  : signal path

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS



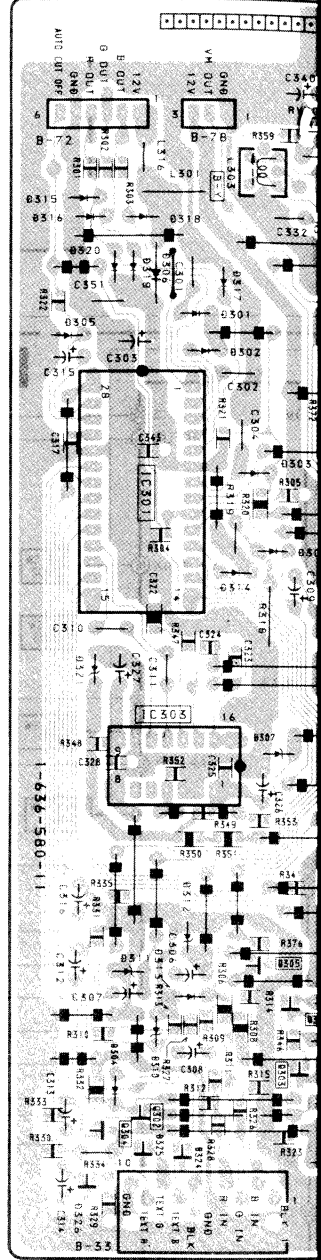
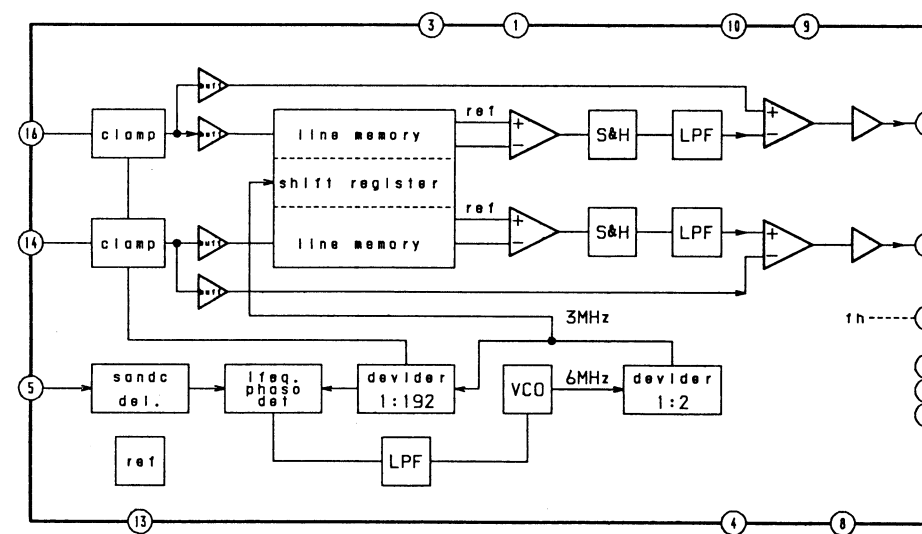
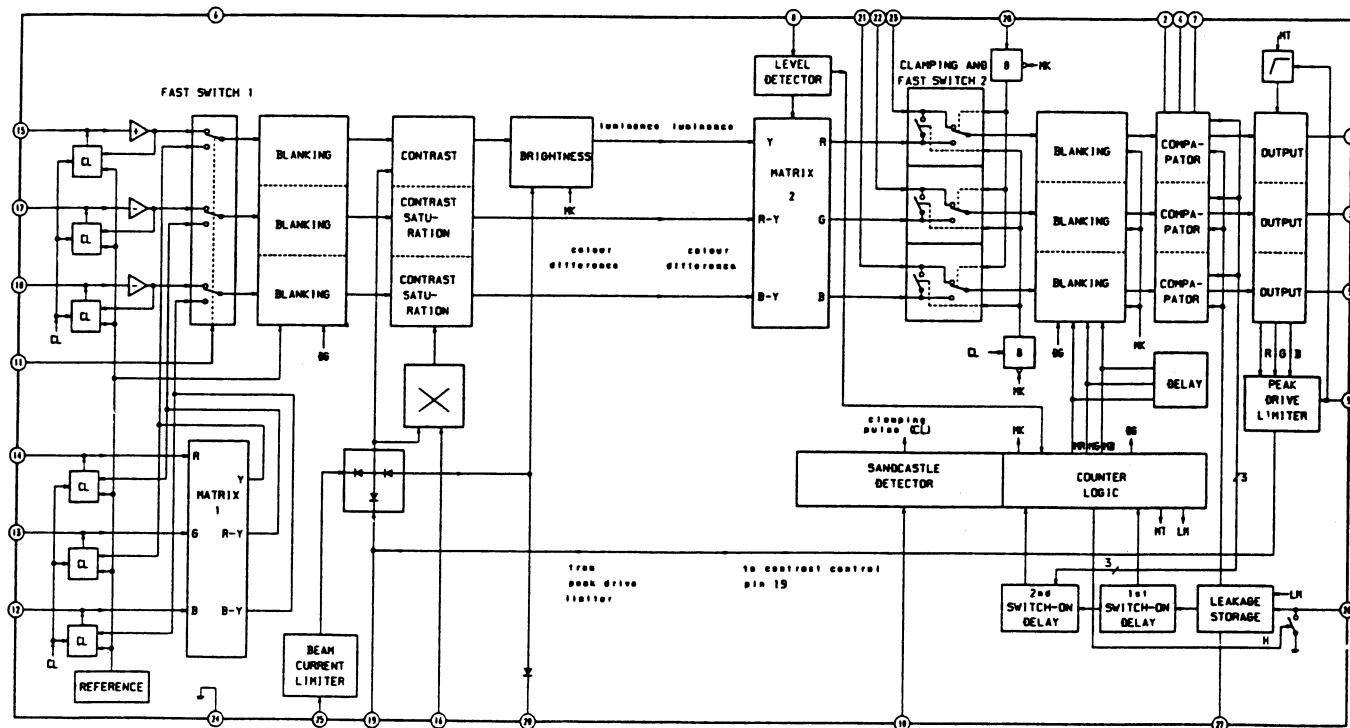
F1

-F1 Board

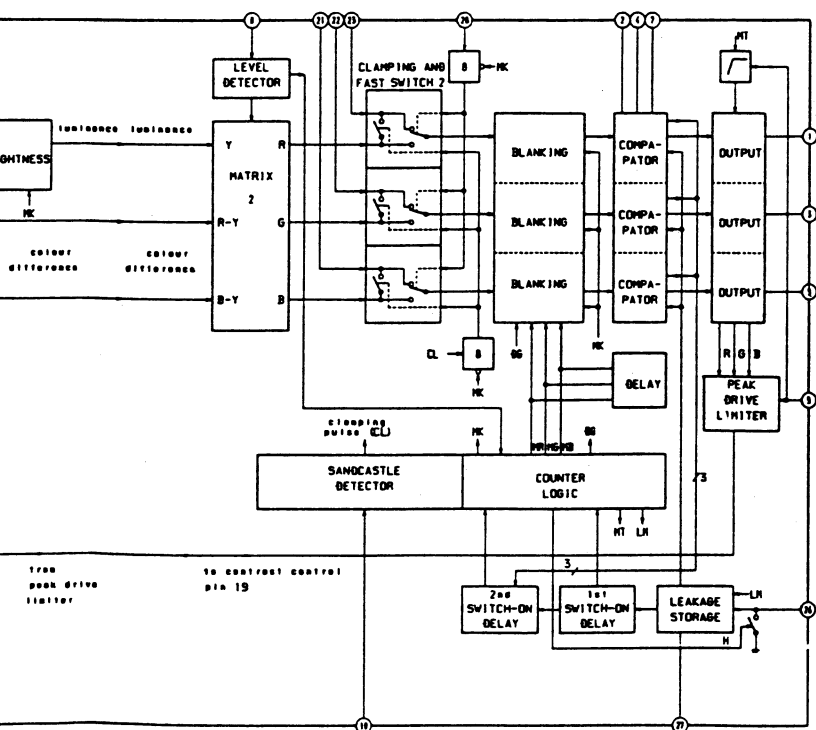
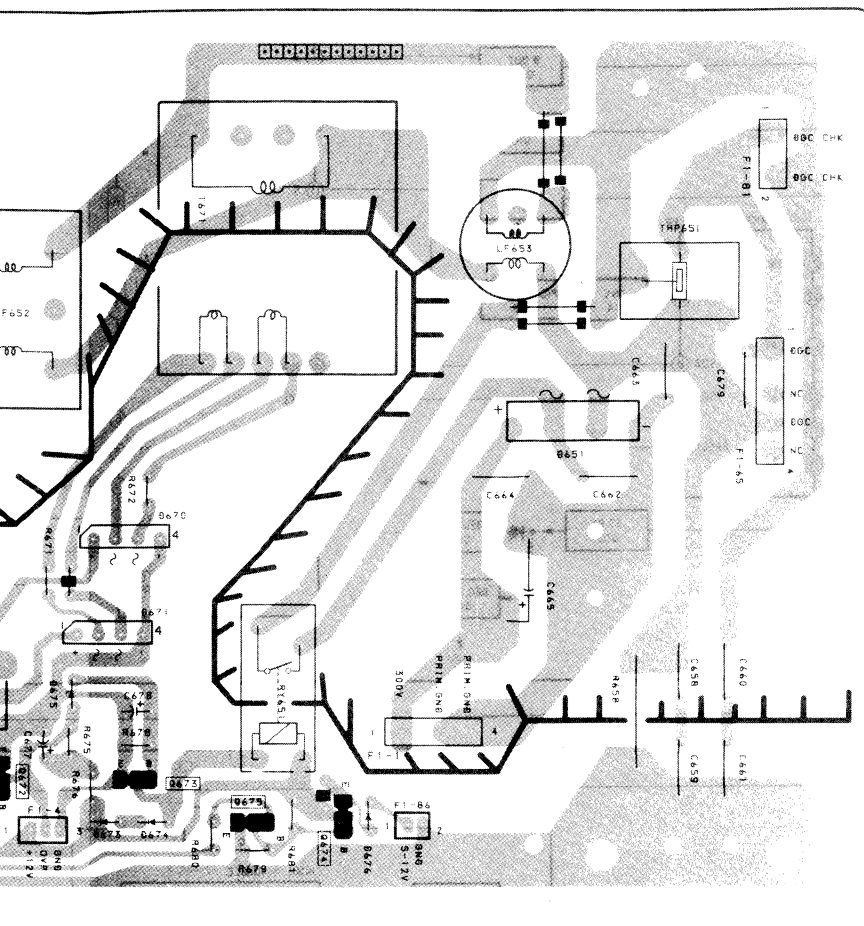
B BOARD

REFERENCE

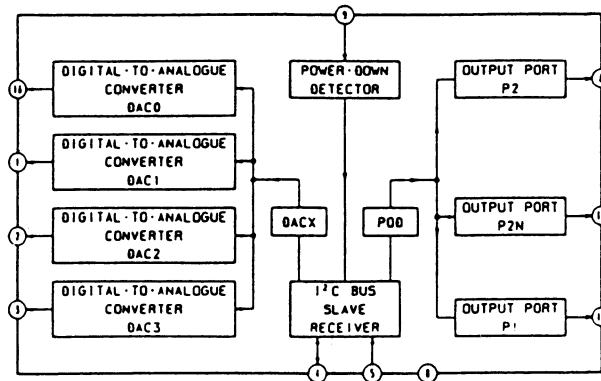
-B Board-



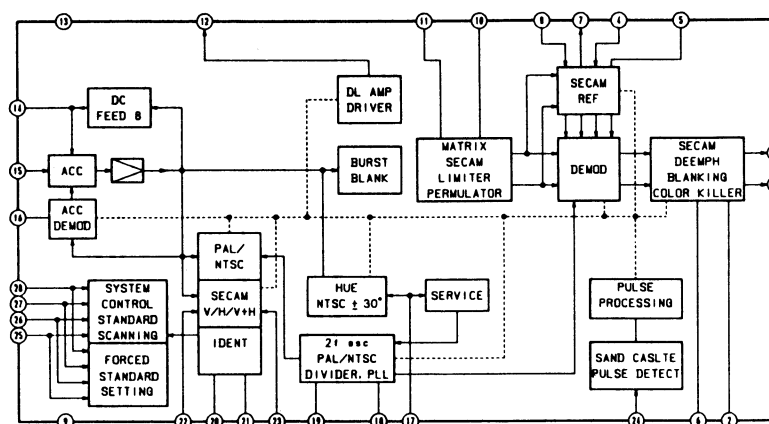
AC IN, POWER SW] **B** VIDEO PROCESSOR, Y/C SWITCH
COLOR PROCESSOR, SHARPNESS CONTROL]



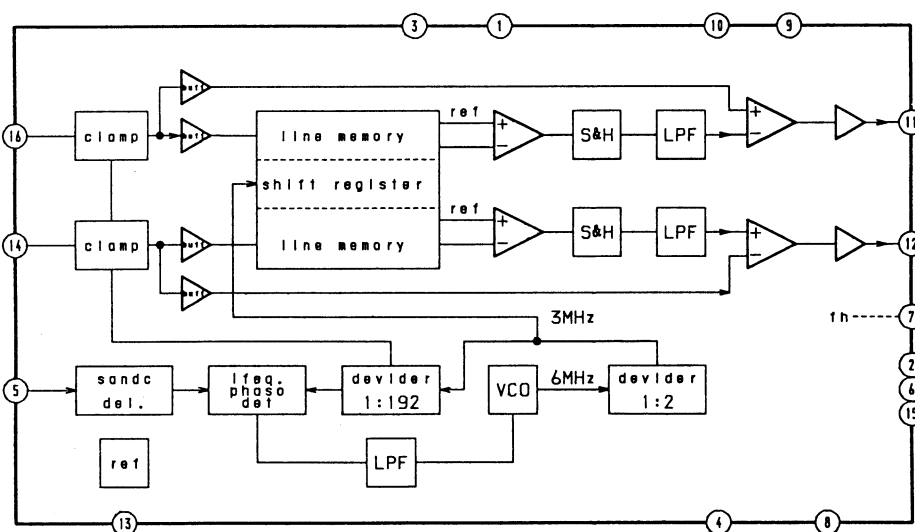
B BOARD IC302 TDA8442-N3



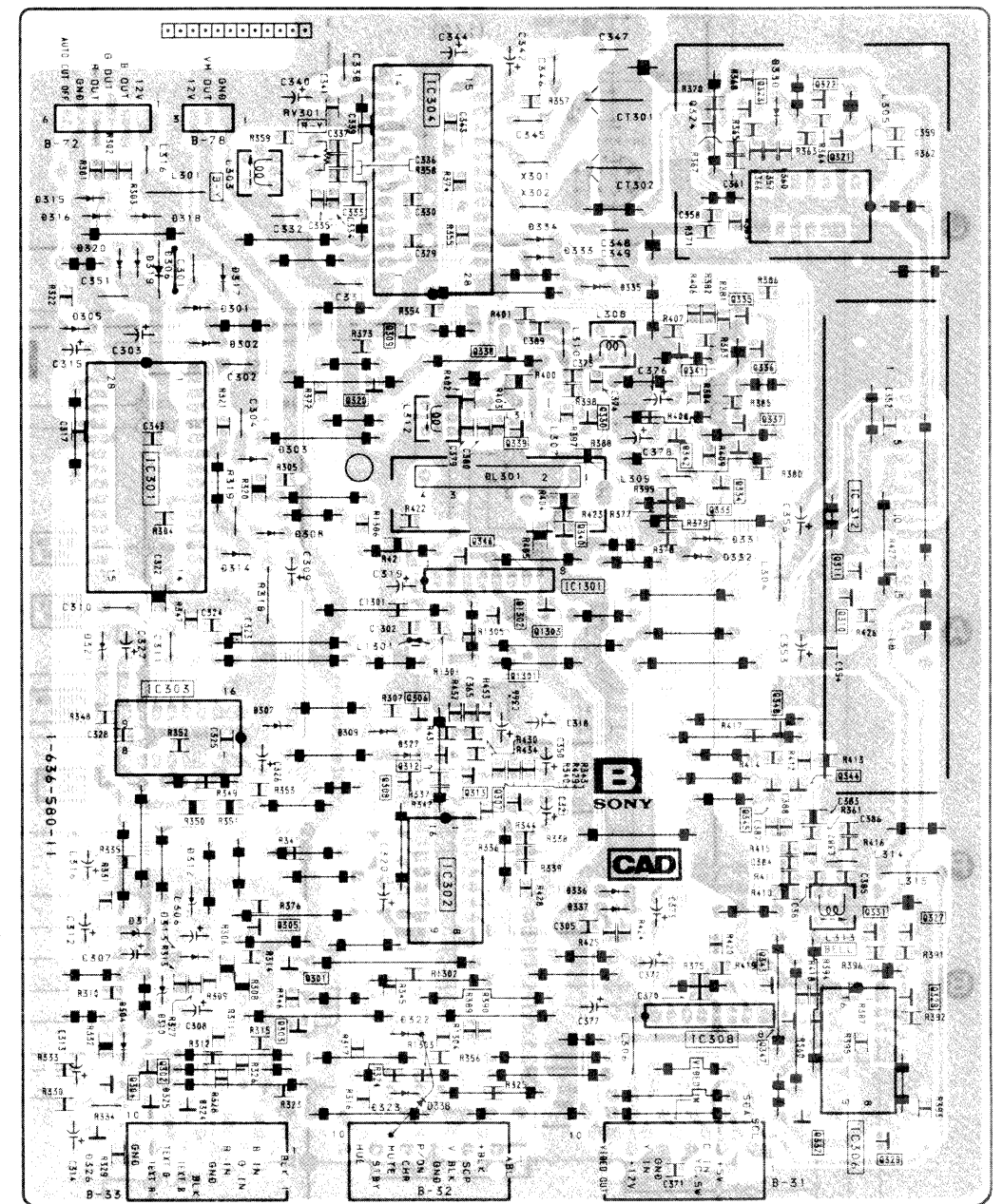
B BOARD IC304 TDA4650



B BOARD IC303 TDA4660



— B Board —



1 2 3 4 5 6 7 8 9 10 11 12

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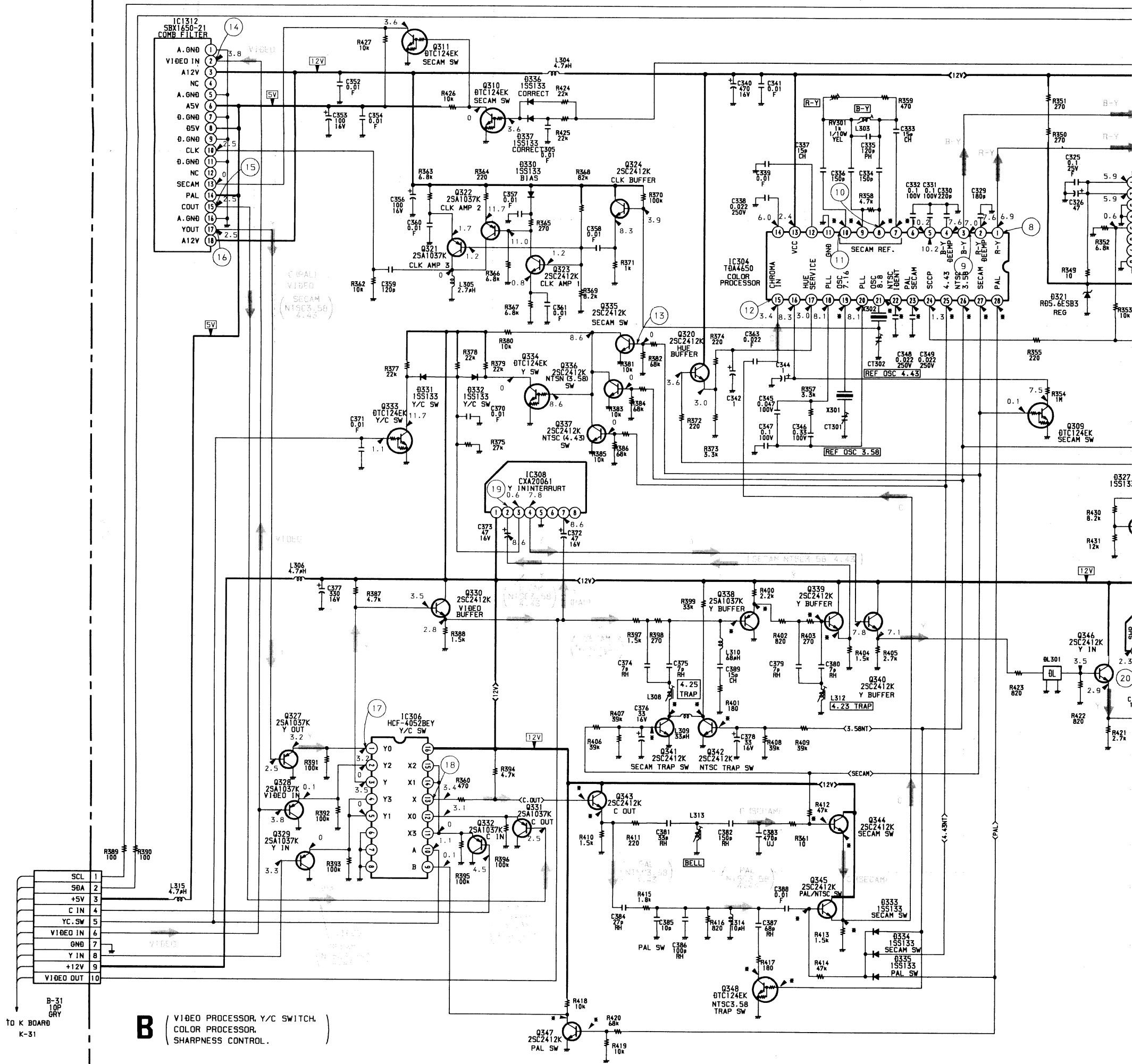
J

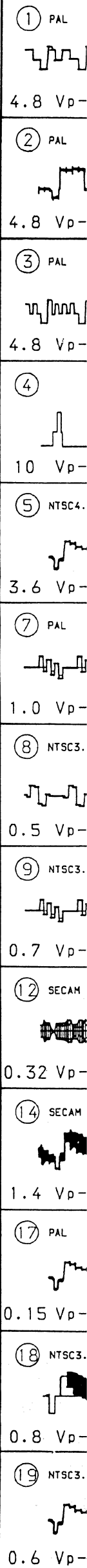
K

L

M

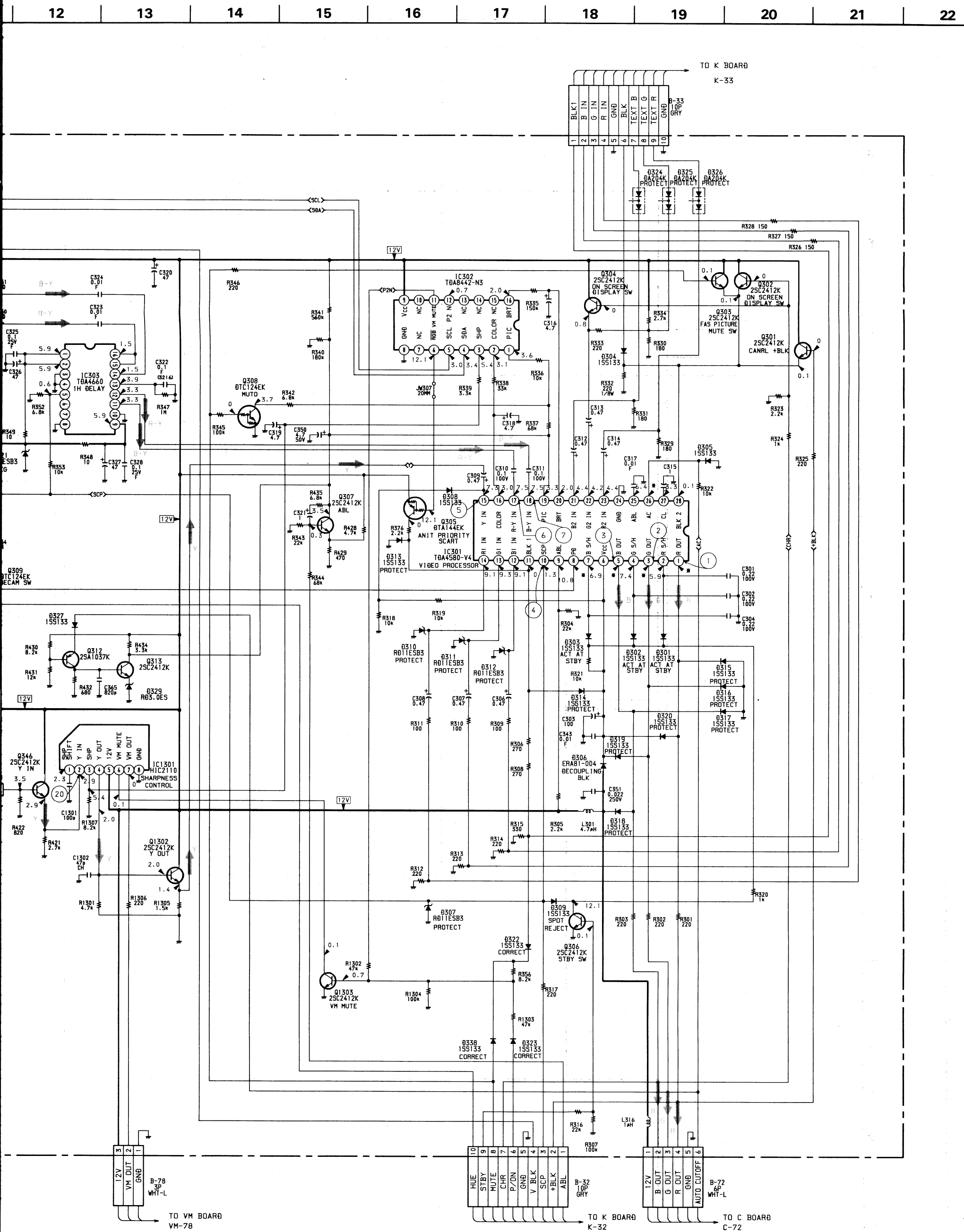
N





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IC NO	PI
IC301	
IC304	



• WAVEFORMS B BOARD

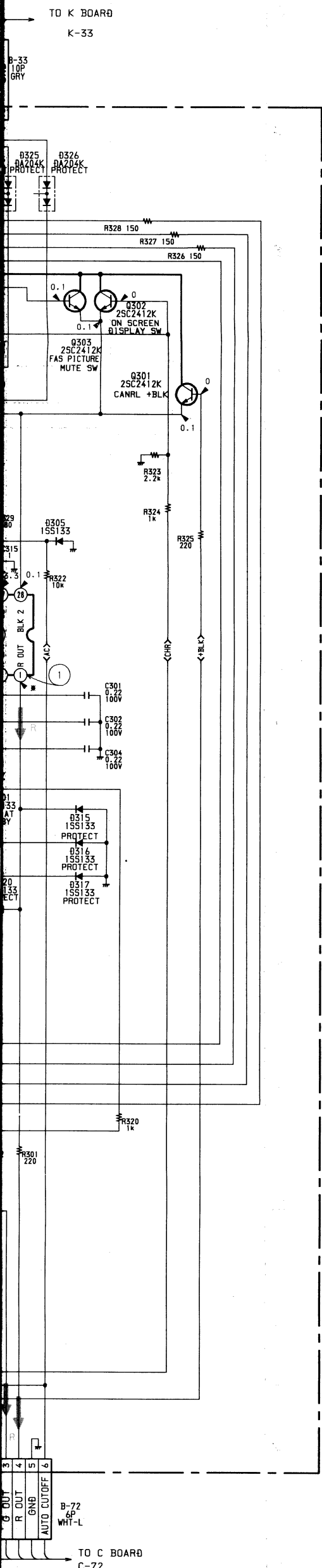
① PAL 4.8 Vp-p (H)	① SECAM 6.0 Vp-p (H)	① NTSC3.58 5.2 Vp-p (H)	① NTSC4.43 4.8 Vp-p (H)
② PAL 4.8 Vp-p (H)	② SECAM 5.6 Vp-p (H)	② NTSC3.58 3.8 Vp-p (H)	② NTSC4.43 5.0 Vp-p (H)
③ PAL 4.8 Vp-p (H)	③ SECAM 5.6 Vp-p (H)	③ NTSC3.58 4.6 Vp-p (H)	③ NTSC4.43 5.2 Vp-p (H)
④ 10 Vp-p (H)	⑤ PAL 0.32 Vp-p (H)	⑤ SECAM 0.4 Vp-p (H)	⑤ NTSC3.58 0.24 Vp-p (H)
⑤ NTSC4.43 3.6 Vp-p (H)	⑥ PAL 0.8 Vp-p (H)	⑥ SECAM/NTSC3.58 1.0 Vp-p (H)	⑥ NTSC4.43 0.9 Vp-p (H)
⑦ PAL 1.0 Vp-p (H)	⑦ SECAM/NTSC3.58/NTSC4.43 1.3 Vp-p (H)	⑧ PAL 0.4 Vp-p (H)	⑧ SECAM 1.0 Vp-p (H)
⑧ NTSC3.58 0.5 Vp-p (H)	⑧ NTSC4.43 0.48 Vp-p (H)	⑨ PAL 0.5 Vp-p (H)	⑨ SECAM 1.3 Vp-p (H)
⑨ NTSC3.58/NTSC4.43 0.7 Vp-p (H)	⑩ SECAM 0.2 Vp-p (H)	⑪ SECAM 1.0 Vp-p (H)	⑫ PAL/NTSC4.43 0.1 Vp-p (H)
⑫ SECAM 0.32 Vp-p (H)	⑫ NTSC3.58 0.12 Vp-p (H)	⑬ SECAM 0.05 Vp-p (H)	⑭ PAL/NTSC3.58/NTSC4.43 1.0 Vp-p (H)
⑭ SECAM 1.4 Vp-p (H)	⑮ PAL 0.26 Vp-p (H)	⑮ SECAM/NTSC3.58/NTSC4.43 0.5 Vp-p (H)	⑯ 0.8 Vp-p (H)
⑰ PAL 0.15 Vp-p (H)	⑰ SECAM/NTSC3.58/NTSC4.43 0.1 Vp-p (H)	⑱ PAL 0.24 Vp-p (H)	⑱ SECAM 1.4 Vp-p (H)
⑱ NTSC3.58 0.8 Vp-p (H)	⑱ NTSC4.43 1.0 Vp-p (H)	⑲ PAL/NTSC4.43 0.8 Vp-p (H)	⑲ SECAM 1.1 Vp-p (H)
⑲ NTSC3.58 0.6 Vp-p (H)	⑳ PAL/NTSC4.43 0.4 Vp-p (H)	⑳ SECAM 0.5 Vp-p (H)	⑳ NTSC3.58 0.3 Vp-p (H)

As to the voltage value shown by the mark ※ on the Schematic Diagram, see the another list.

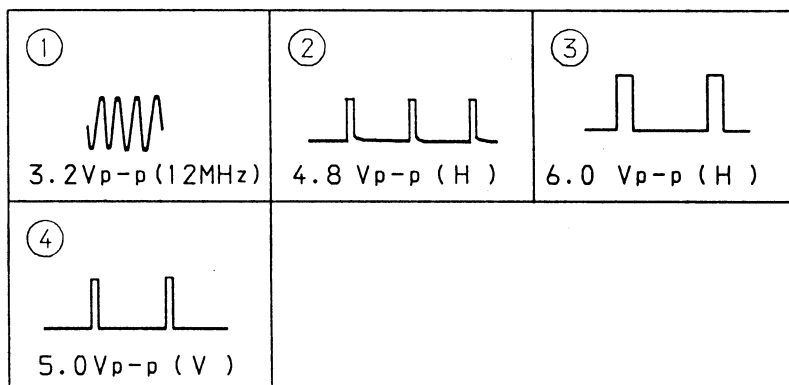
IC·NO	PIN·NO	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC301	(1)	3.7	4.1	3.3	3.7
	(2)	5.4	5.7	5.0	5.4
	(3)	5.5	5.8	5.1	5.5
	(4)	0.1	0.1	6.0	0.1
	(5)	6.0	6.5	5.5	4.0
IC304	(6)	4.9	3.5	4.9	4.9
	(7)	3.6	3.1	3.9	3.6
	(8)	3.6	3.1	3.9	3.6
	(9)	4.9	4.5	4.9	4.9
	(10)	3.0	3.8	3.0	3.0
	(11)	3.0	4.0	3.3	3.0
	(12)	5.8	5.8	7.4	3.0
	(13)	7.4	7.0	5.7	5.7
	(14)	0.1	0.1	0.1	6.0
	(15)	0.1	0.1	6.0	0.1
	(16)	0.1	6.0	0.1	0.1
	(17)	6.0	0.1	0.1	0.1

Q·NO		PAL	SECAM	NTSC 3.58	NTSC 4.43
Q338	B	2.9	4.1	4.0	4.0
	E	3.5	4.7	4.7	4.7
Q339	B	3.5	4.7	4.7	4.7
	E	2.9	4.1	4.0	4.0
Q341	B	0	0.7	0	0
	C	12.1	0	0	12.1
Q342	B	0	0	0.7	0
	C	12.1	0	0	12.1
Q343	B	3.4	5.4	5.3	5.3
	E	2.8	4.7	4.7	4.7
Q344	B	0.1	5.4	0.1	0.1
	E	4.4	4.7	4.4	4.4
Q345	B	5.1	0.1	5.1	5.1
	E	4.4	4.7	4.4	4.4
Q347	B	0.6	0	0	0
	C	0.1	12.1	12.2	12.2
Q348	B	0.1	0.1	6.0	0.1
	C	0.6	0.6	0	0.6

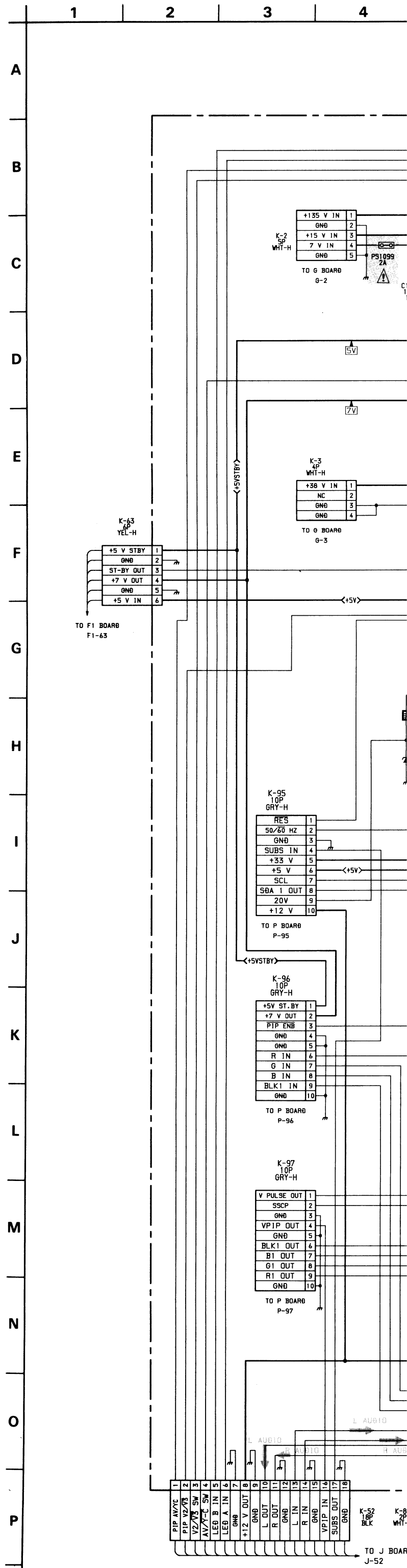
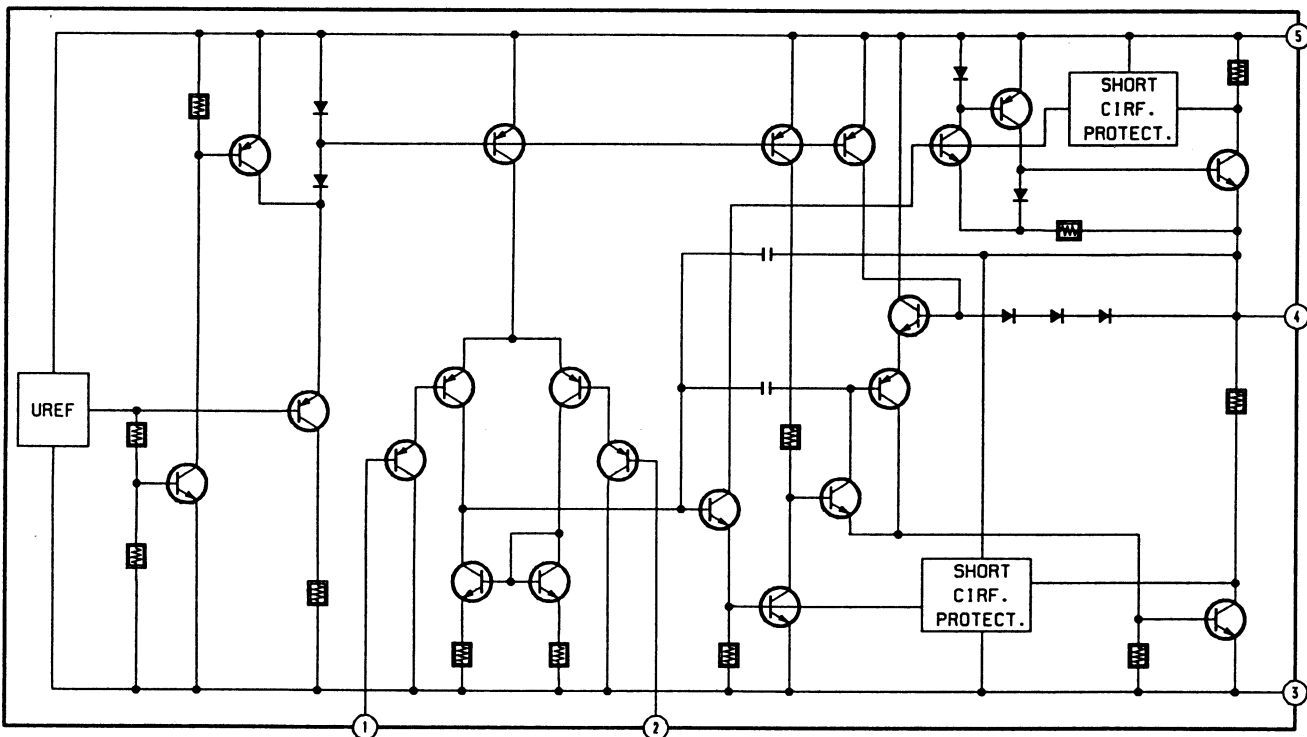
19 20 21 22

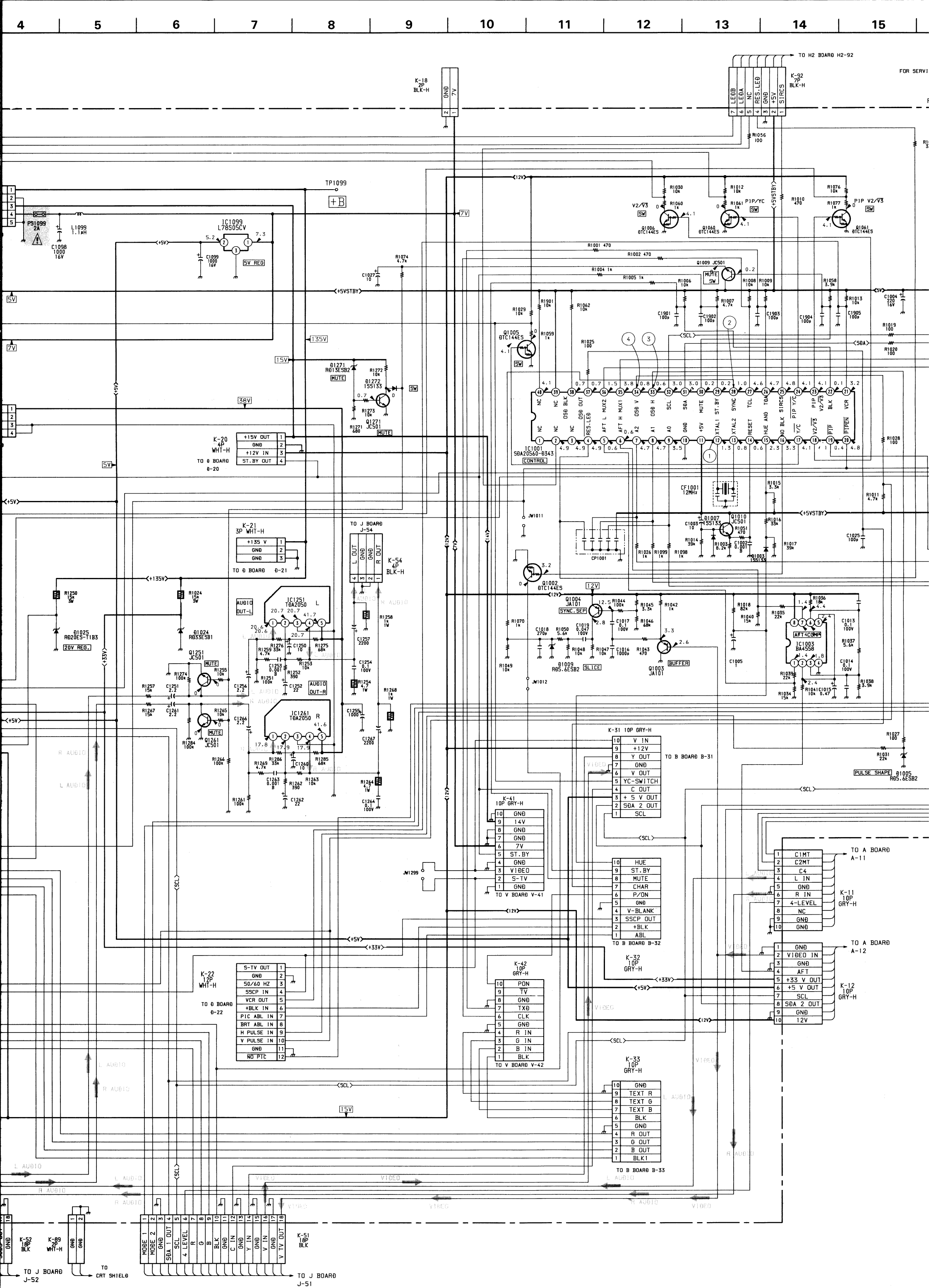


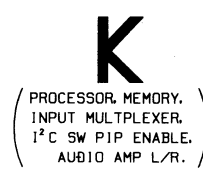
• WAVEFORMS K BOARD



K BOARD IC1251/1261 TDA2050

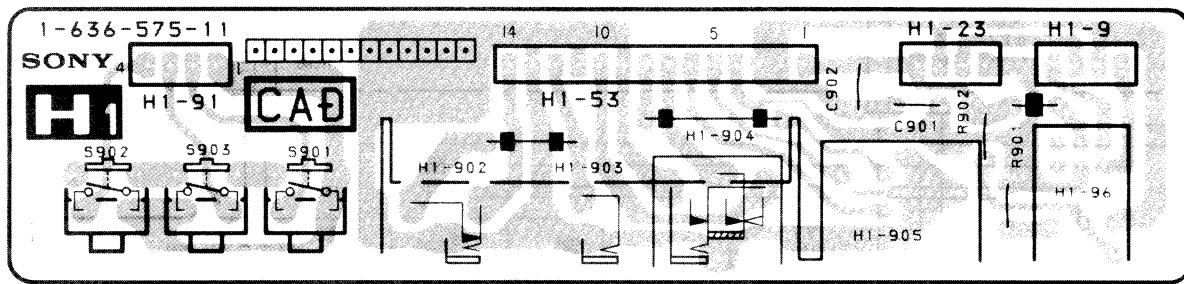




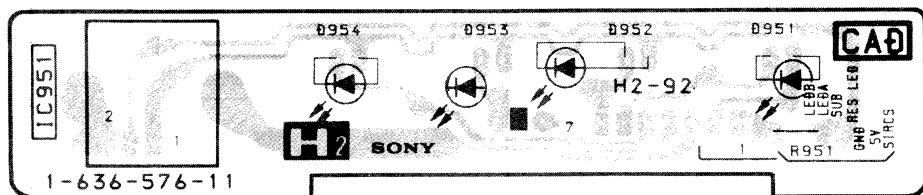


H1 [CONTROL SW, AUDIO/VIDEO IN] **H2** [SIRCS RECEIVER, INDICATOR] **K** [PROCESSOR, MEMORY, INPUT MULTIPLEXER, I²C SW, PIP ENABLE, AUDIO AMP L/R] **A** [TUNER, SIF, VIF]

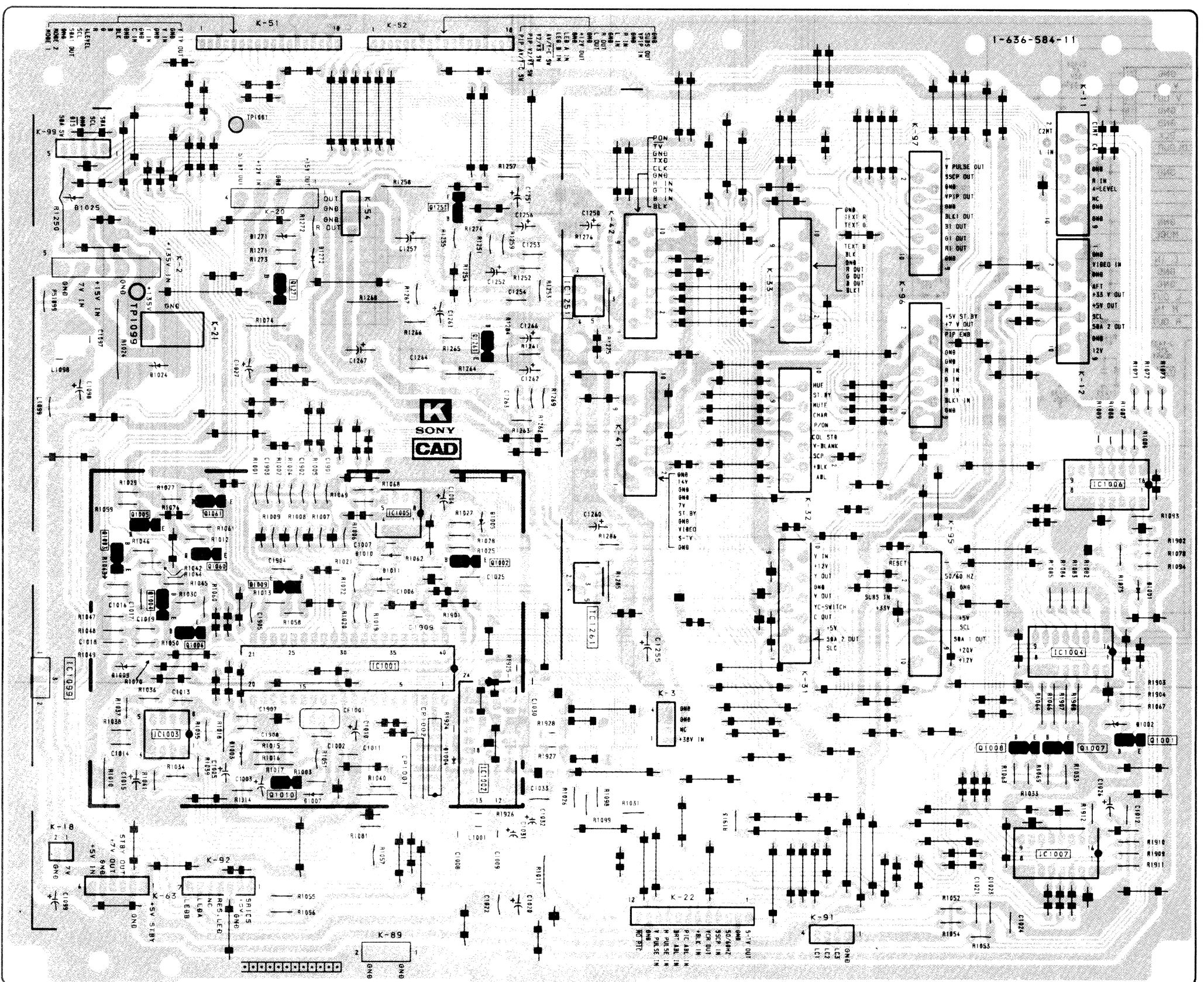
—H1 Board—

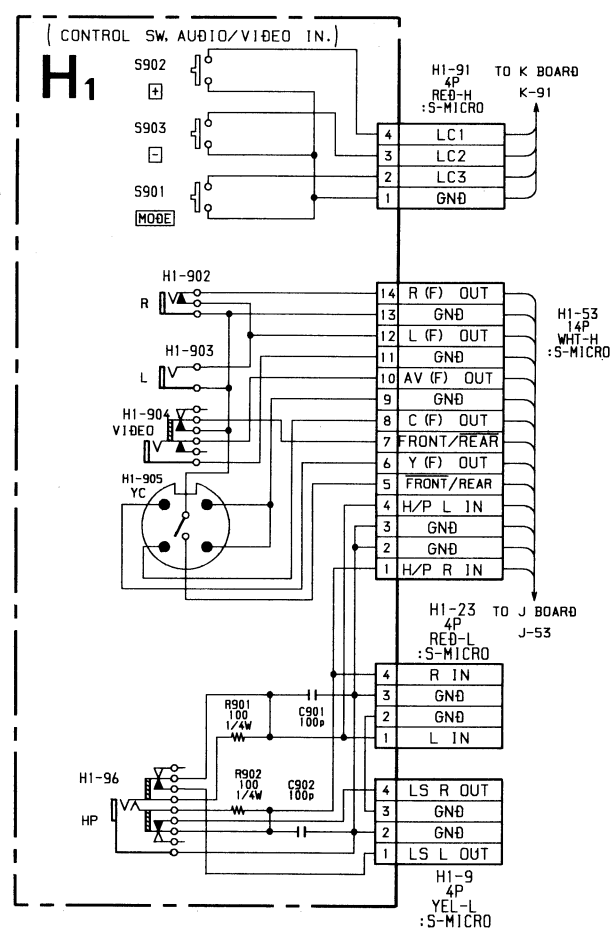


—H2 Board—

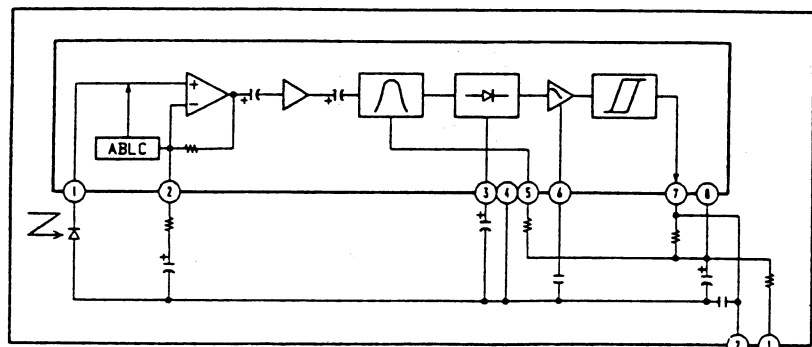


—K Board—

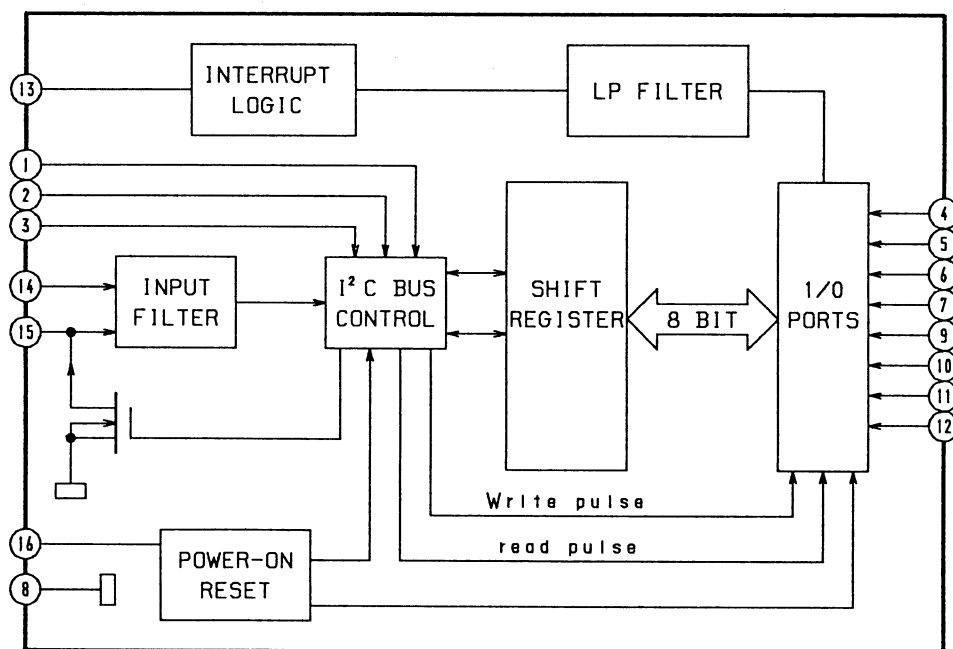
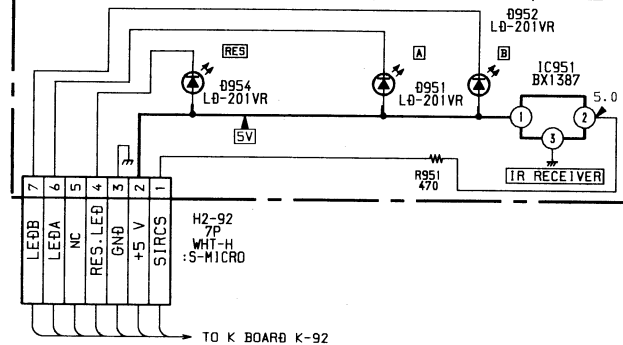




H2 BOARD IC951 BA1387



(SIRCS RECEIVER,
INDICATOR.) **H₂**



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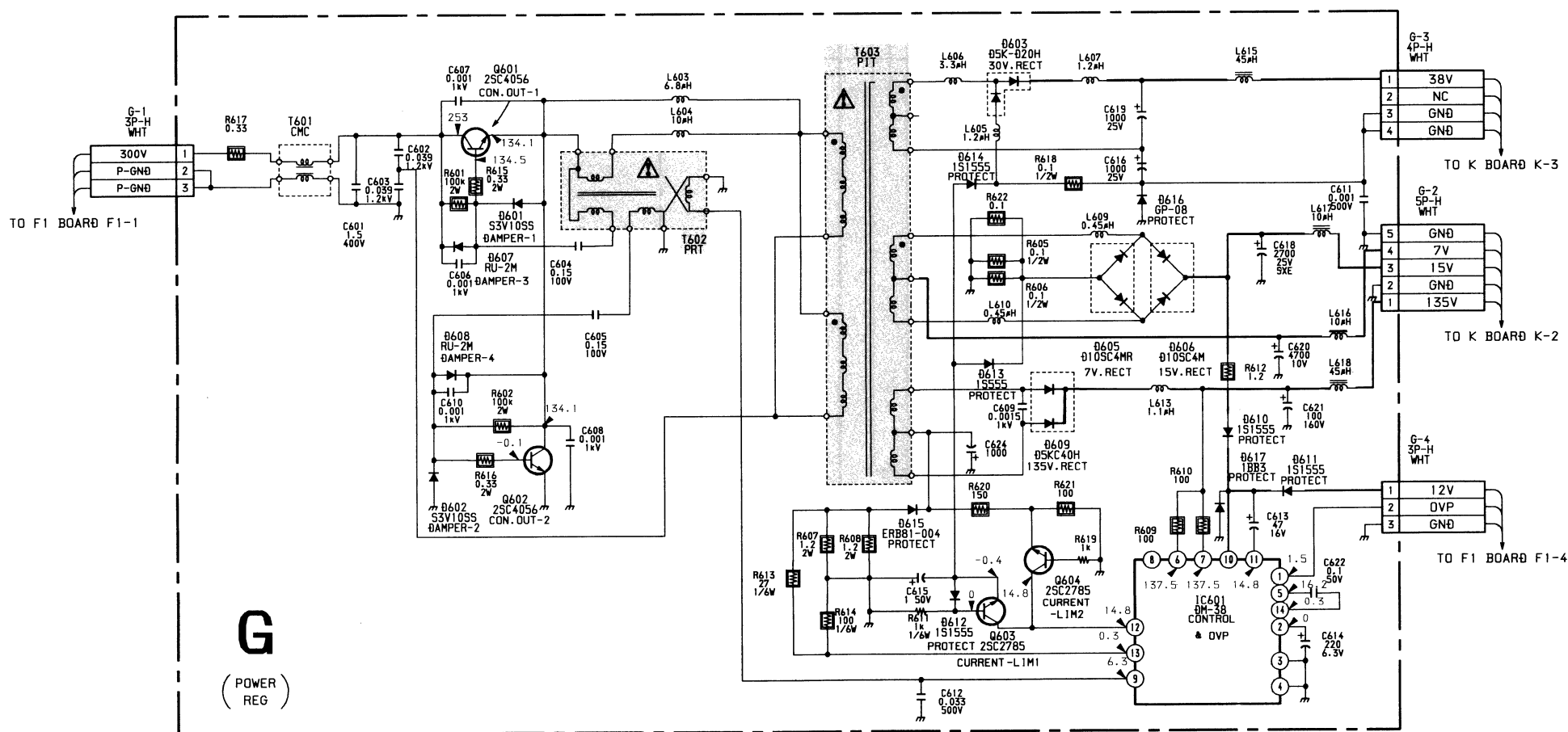
J

K

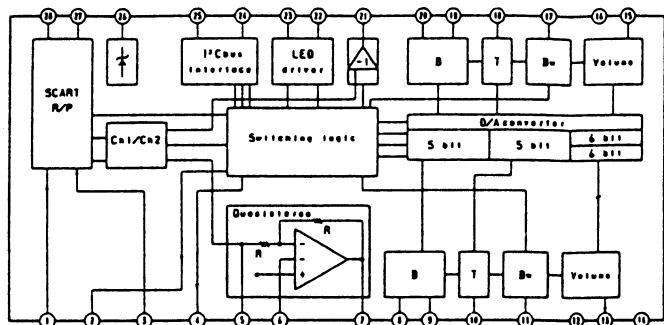
L

M

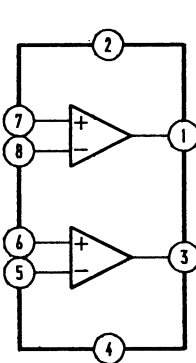
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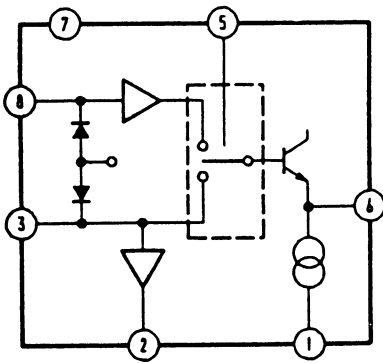
J BOARD IC201 TDA6200



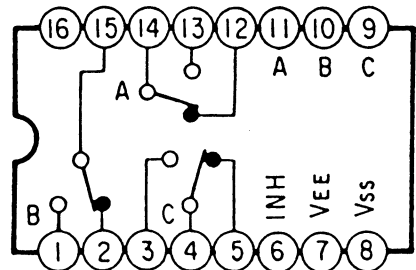
J BOARD IC204 TDA2822M



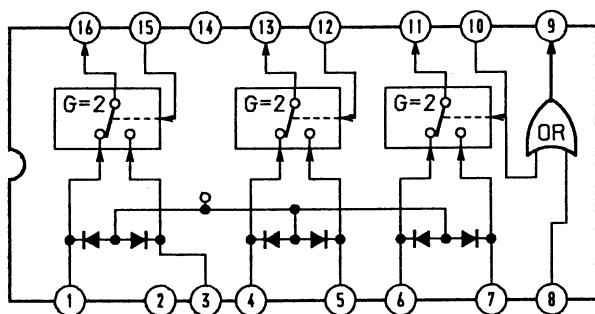
J BOARD IC1402 TEA2014A



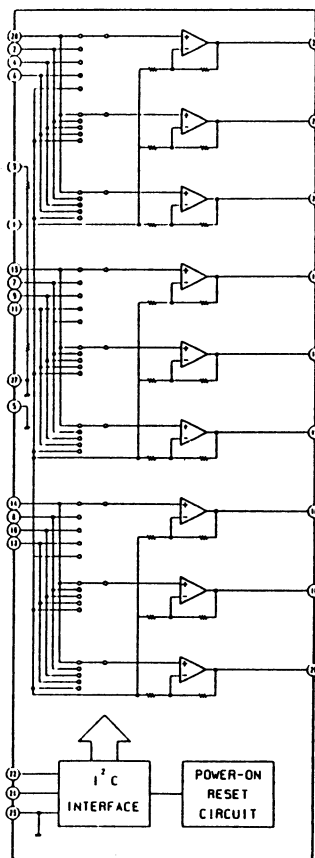
J BOARD IC1403 HD14053BP

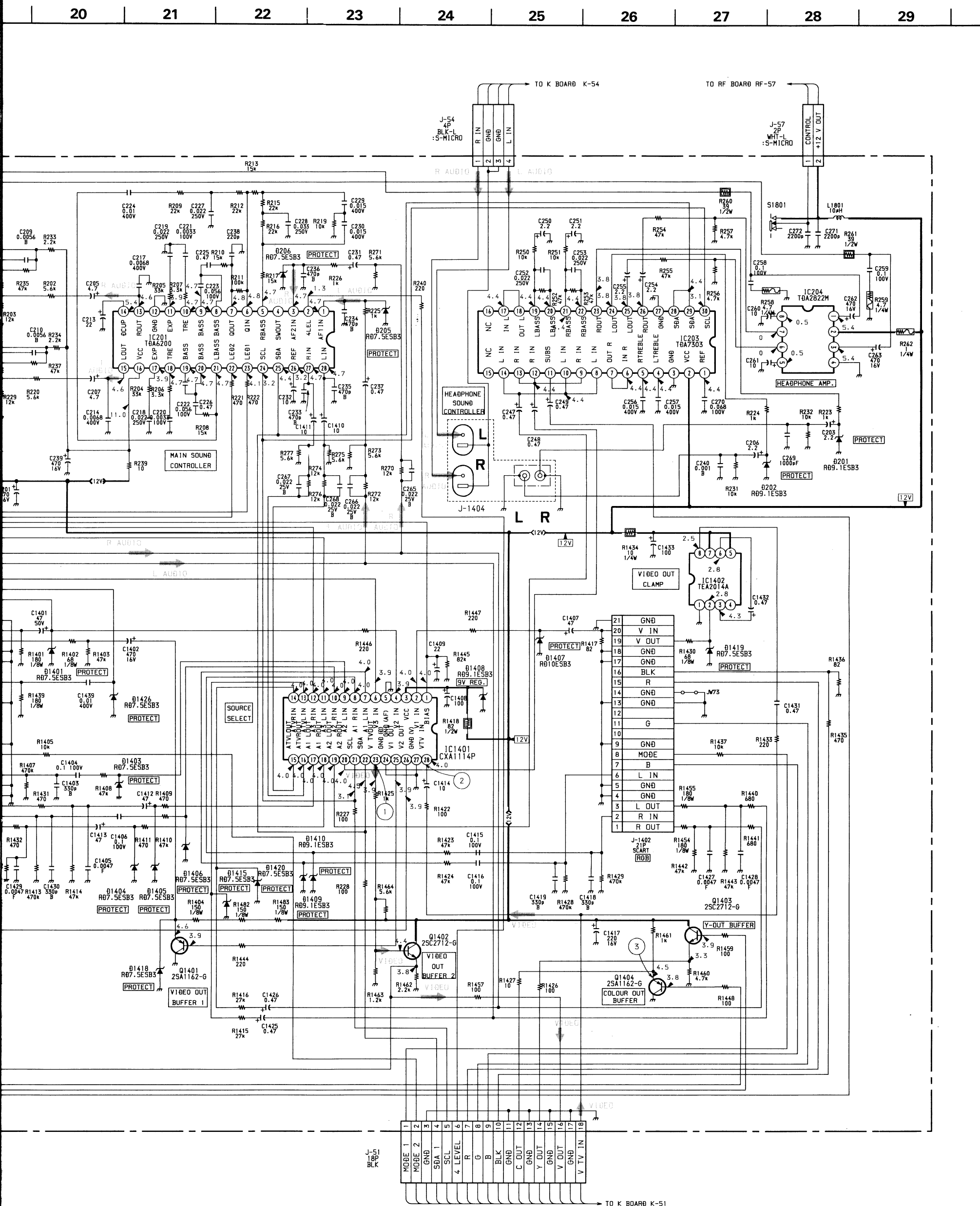


J BOARD IC1404 TEA5114A

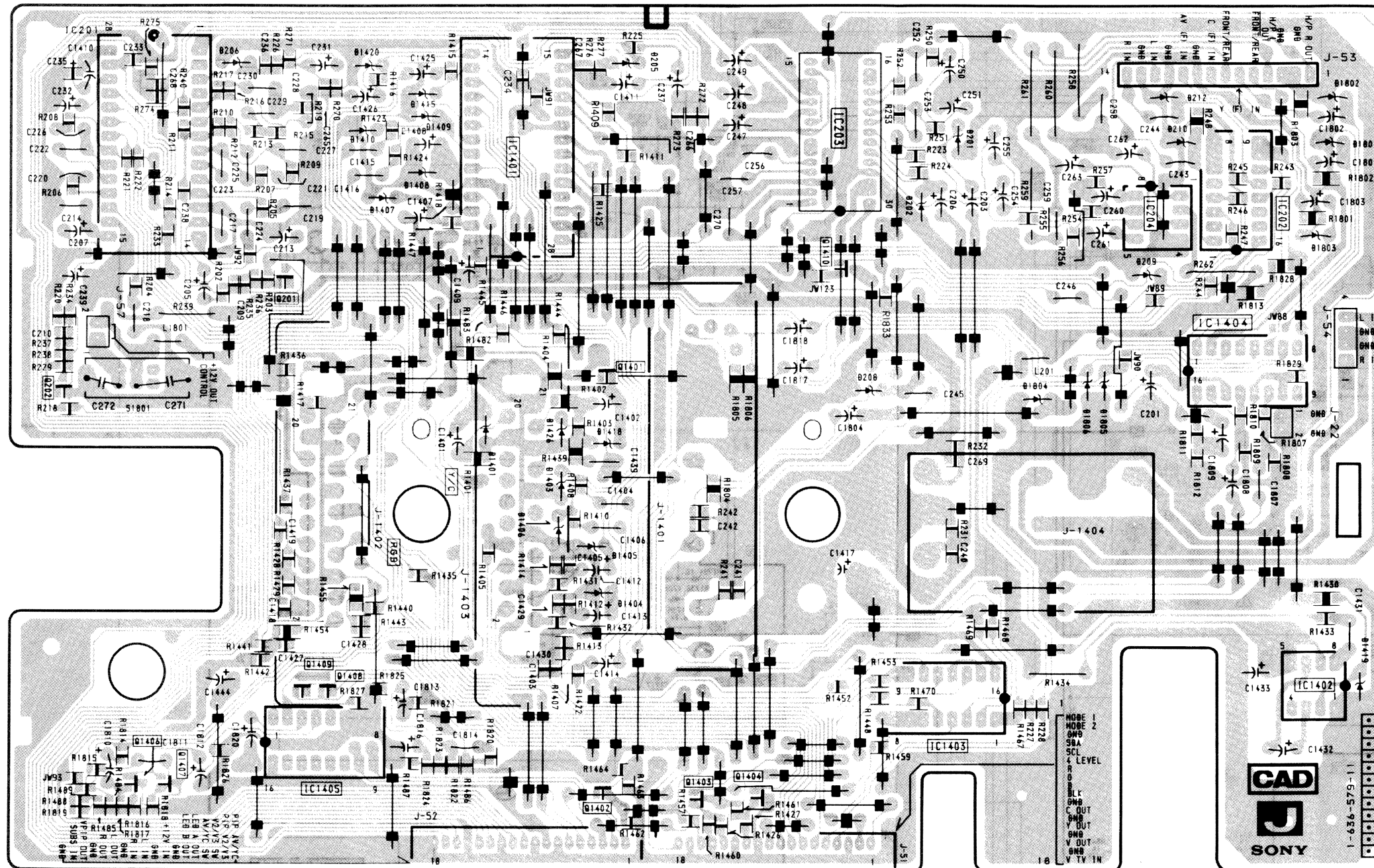


J BOARD IC1401 CXA1114P

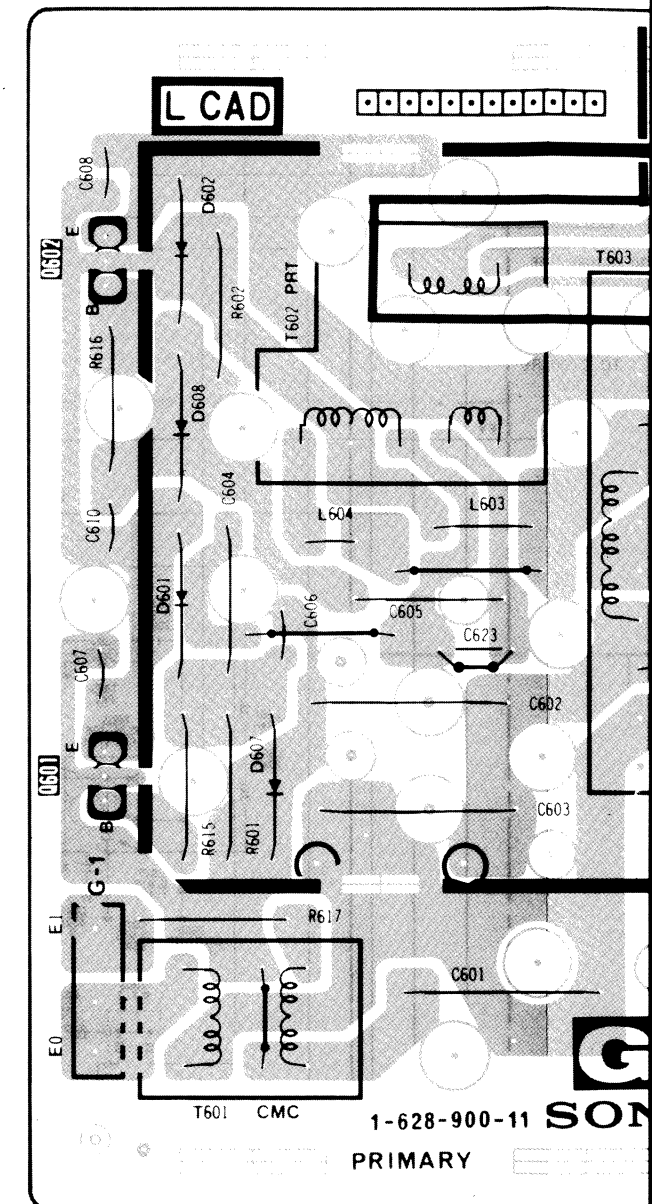


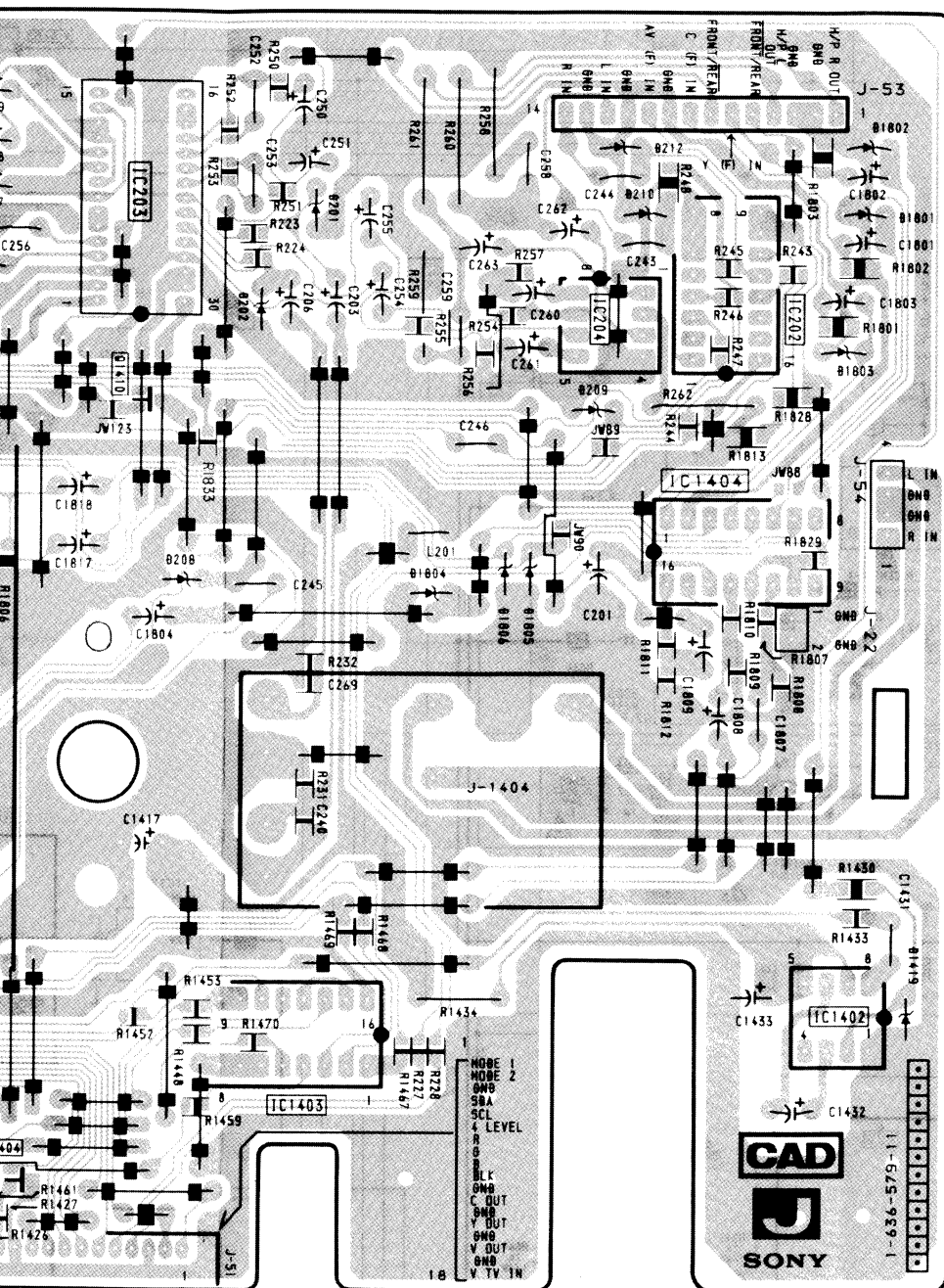


-J Board-

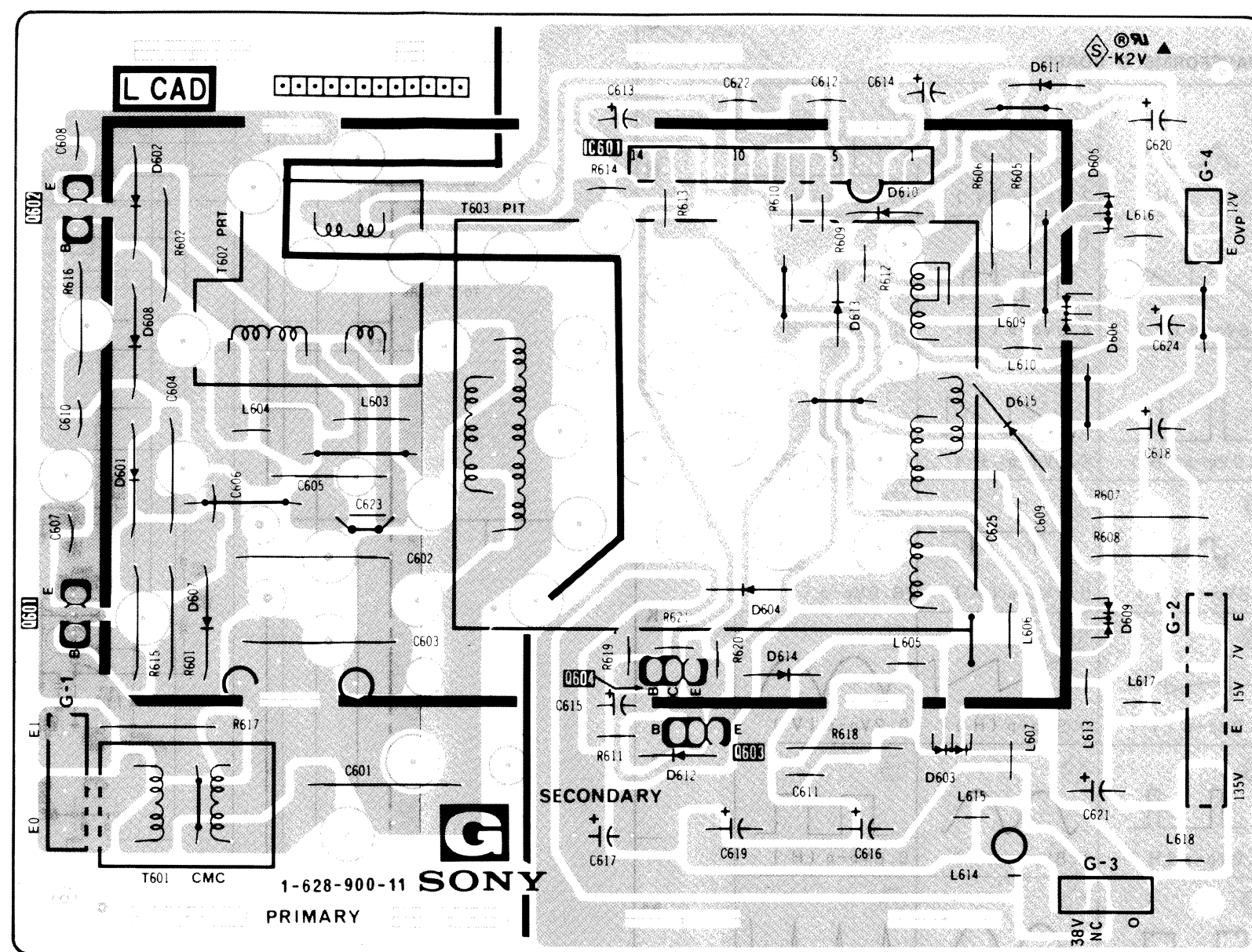


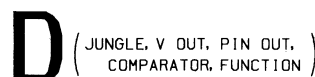
-G Board-

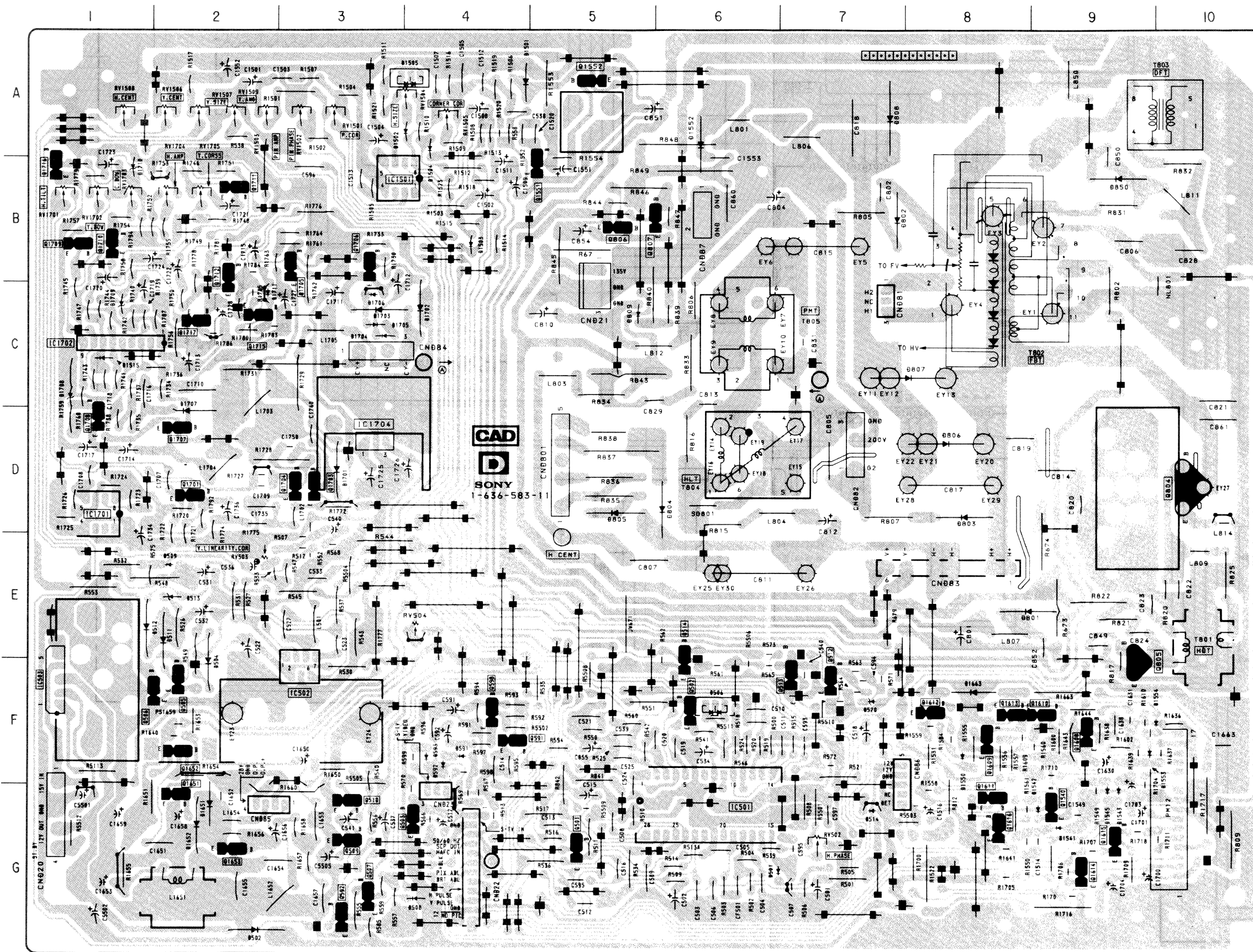




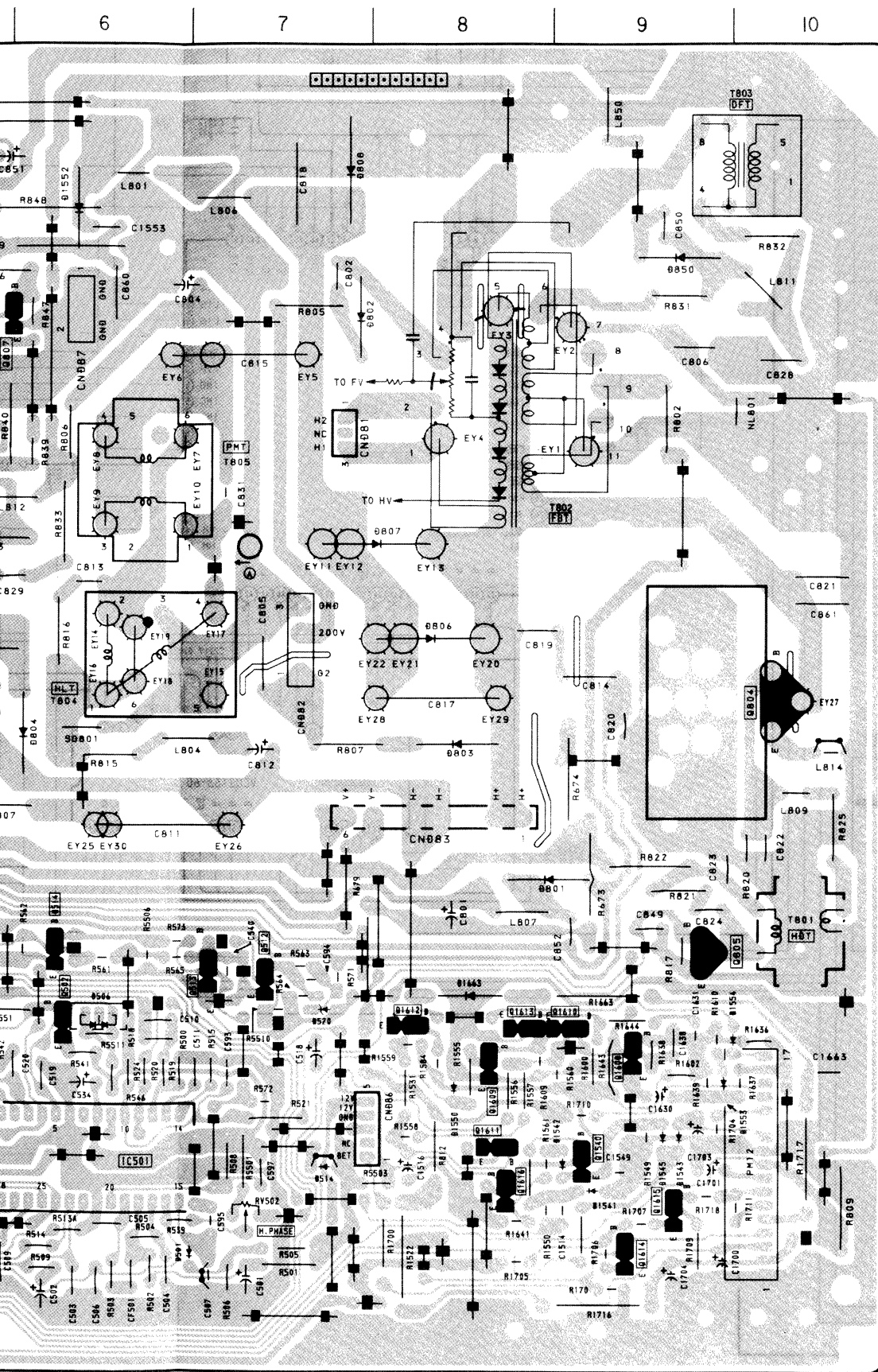
— G Board —





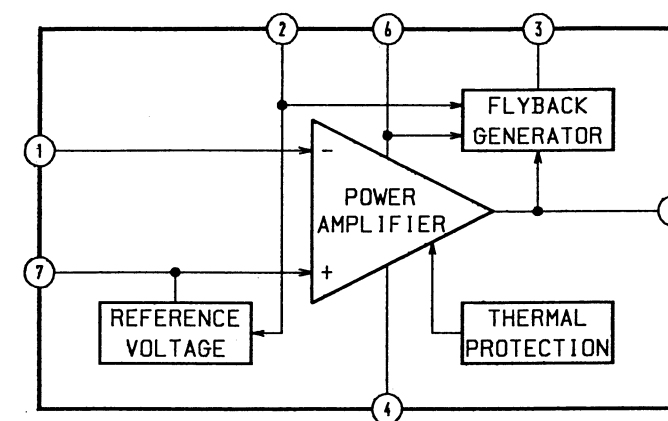


IC		D512 E-1	
IC501	G-6	D513	E-2
IC502	F-3	D801	E-8
IC503	F-1	D802	B-7
IC1501	B-3	D803	D-8
IC1701	D-1	D804	D-6
IC1702	C-1	D805	D-5
IC1704	D-3	D806	D-8
		D807	C-8
		D808	A-7
		D809	C-5
TRANSISTOR		D850	B-9
Q501	G-5	D1501	A-4
Q502	F-6	D1502	A-3
Q505	F-2	D1503	B-4
Q506	F-2	D1504	B-4
Q507	G-3	D1505	A-3
Q509	G-3	D1515	C-1
Q510	G-3	D1552	A-6
Q591	F-4	D1652	G-2
Q592	G-3	D1701	D-3
Q598	F-4	D1702	C-4
Q804	D-10	D1703	C-3
Q805	E-9	D1704	C-3
Q806	B-5	D1705	C-3
Q807	B-5	D1707	D-2
Q1551	B-5	D1708	C-1
Q1552	A-5	D1709	C-1
Q1608	F-9	D1710	B-1
Q1653	G-2	VARIABLE RESISTOR	
Q1701	D-2	RV502	G-7
Q1703	D-3	RV1501	A-3
Q1704	D-3	RV1502	A-3
Q1705	B-3	RV1503	A-2
Q1706	B-3	RV1504	A-4
Q1707	D-2	RV1505	A-4
Q1708	D-1	RV1506	A-2
Q1709	B-1	RV1507	A-2
Q1710	B-1	RV1508	A-1
Q1711	B-2	RV1509	A-2
Q1712	B-2	RV1701	B-1
Q1716	B-1	RV1702	B-1
Q1717	C-2	RV1703	B-1
DIODE		RV1704	B-2
D501	G-6	RB1705	B-2
D502	G-2		
D504	E-2		
D506	F-6		
D508	G-4		
D511	E-2		

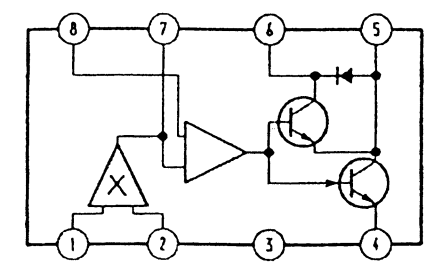


IC		D512	E-1
IC501	G-6	D513	E-2
IC502	F-3	D801	E-8
IC503	F-1	D802	B-7
IC1501	B-3	D803	D-8
IC1701	D-1	D804	D-6
IC1702	C-1	D805	D-5
IC1704	D-3	D806	D-8
		D807	C-8
		D808	A-7
		D809	C-5
		D850	B-9
		D1501	A-4
		D1502	A-3
		D1503	B-4
		D1504	B-4
		D1505	A-3
		D1515	C-1
		D1552	A-6
		D1652	G-2
		D1701	D-3
		D1702	C-4
		D1703	C-3
		D1704	C-3
		D1705	C-3
		D1707	D-2
		D1708	C-1
		D1709	C-1
		D1710	B-1
TRANSISTOR		VARIABLE RESISTOR	
Q501	G-5	RV502	G-7
Q502	F-6	RV1501	A-3
Q505	F-2	RV1502	A-3
Q506	F-2	RV1503	A-2
Q507	G-3	RV1504	A-4
Q509	G-3	RV1505	A-4
Q510	G-3	RV1506	A-2
Q591	F-4	RV1507	A-2
Q592	G-3	RV1508	A-1
Q598	F-4	RV1509	A-2
Q804	D-10	RV1701	B-1
Q805	E-9	RV1702	B-1
Q806	B-5	RV1703	B-1
Q807	B-5	RV1704	B-2
Q1551	B-5	RB1705	B-2
Q1552	A-5		
Q1608	F-9		
Q1653	G-2		
Q1701	D-2		
Q1703	D-3		
Q1704	D-3		
Q1705	B-3		
Q1706	B-3		
Q1707	D-2		
Q1708	D-1		
Q1709	B-1		
Q1710	B-1		
Q1711	B-2		
Q1712	B-2		
Q1716	B-1		
Q1717	C-2		
DIODE			
D501	G-6		
D502	G-2		
D504	E-2		
D506	F-6		
D508	G-4		
D511	E-2		

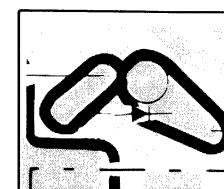
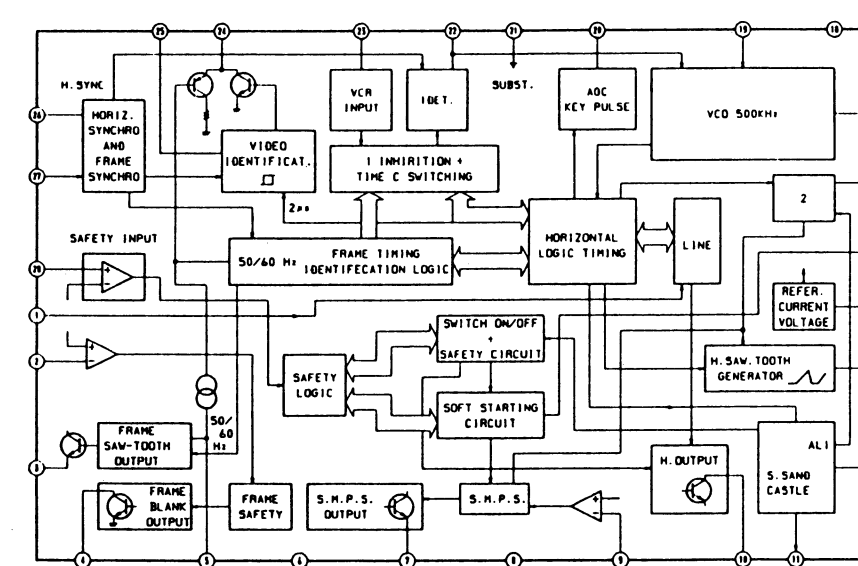
D BOARD IC502 TD8170



D BOARD IC1501 TEA2031A

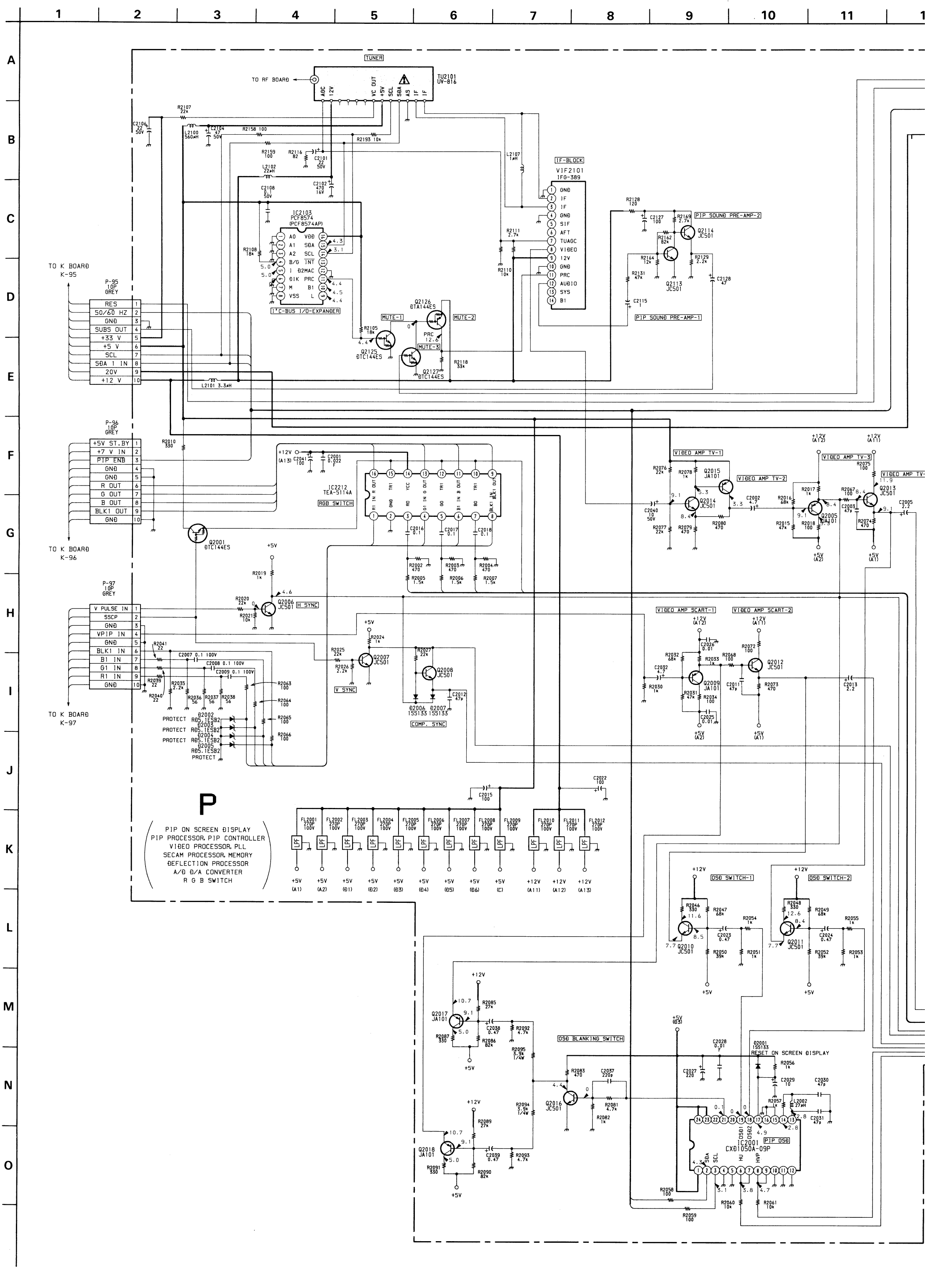


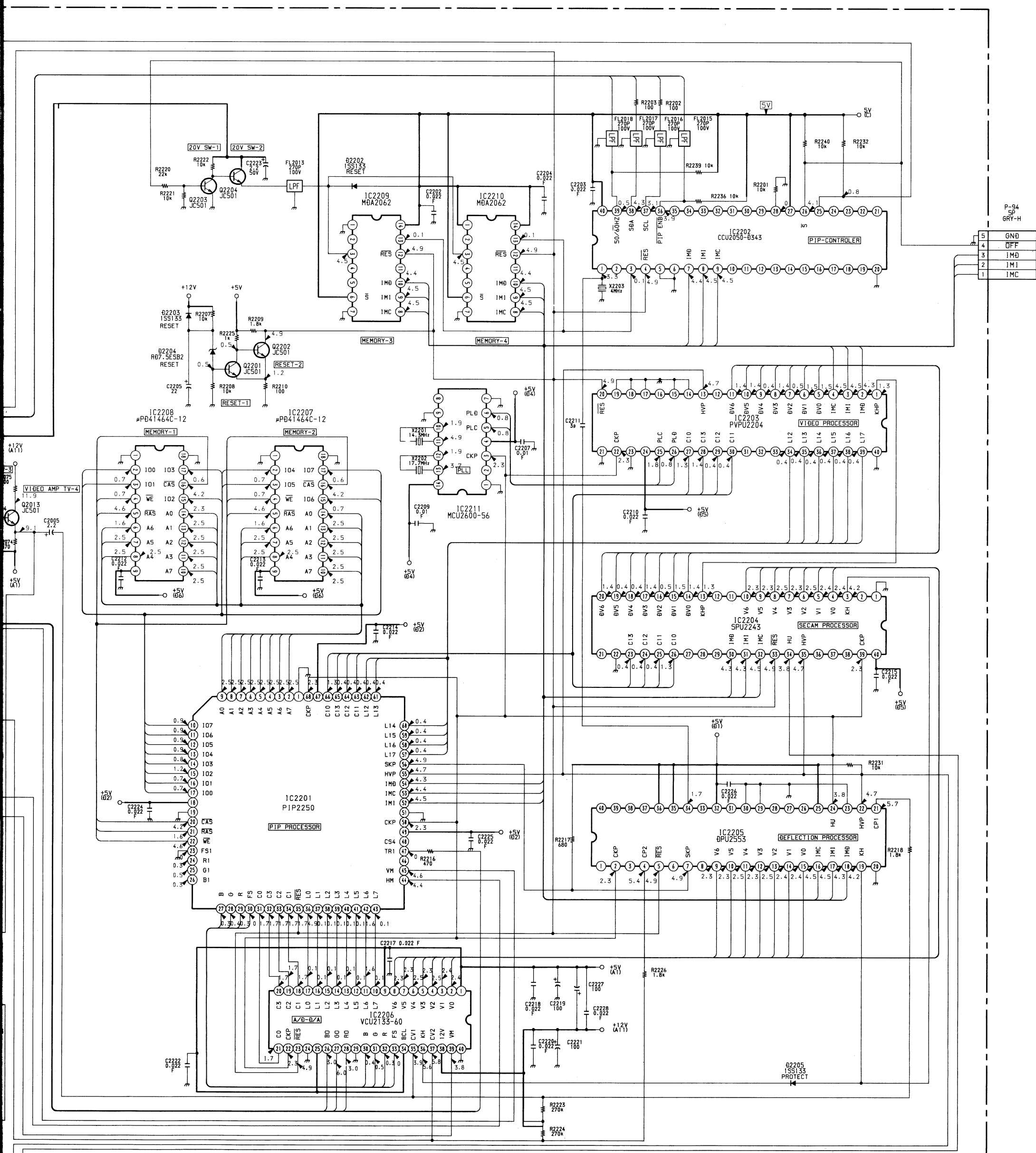
D BOARD IC501 TEA2028B



NOTE:

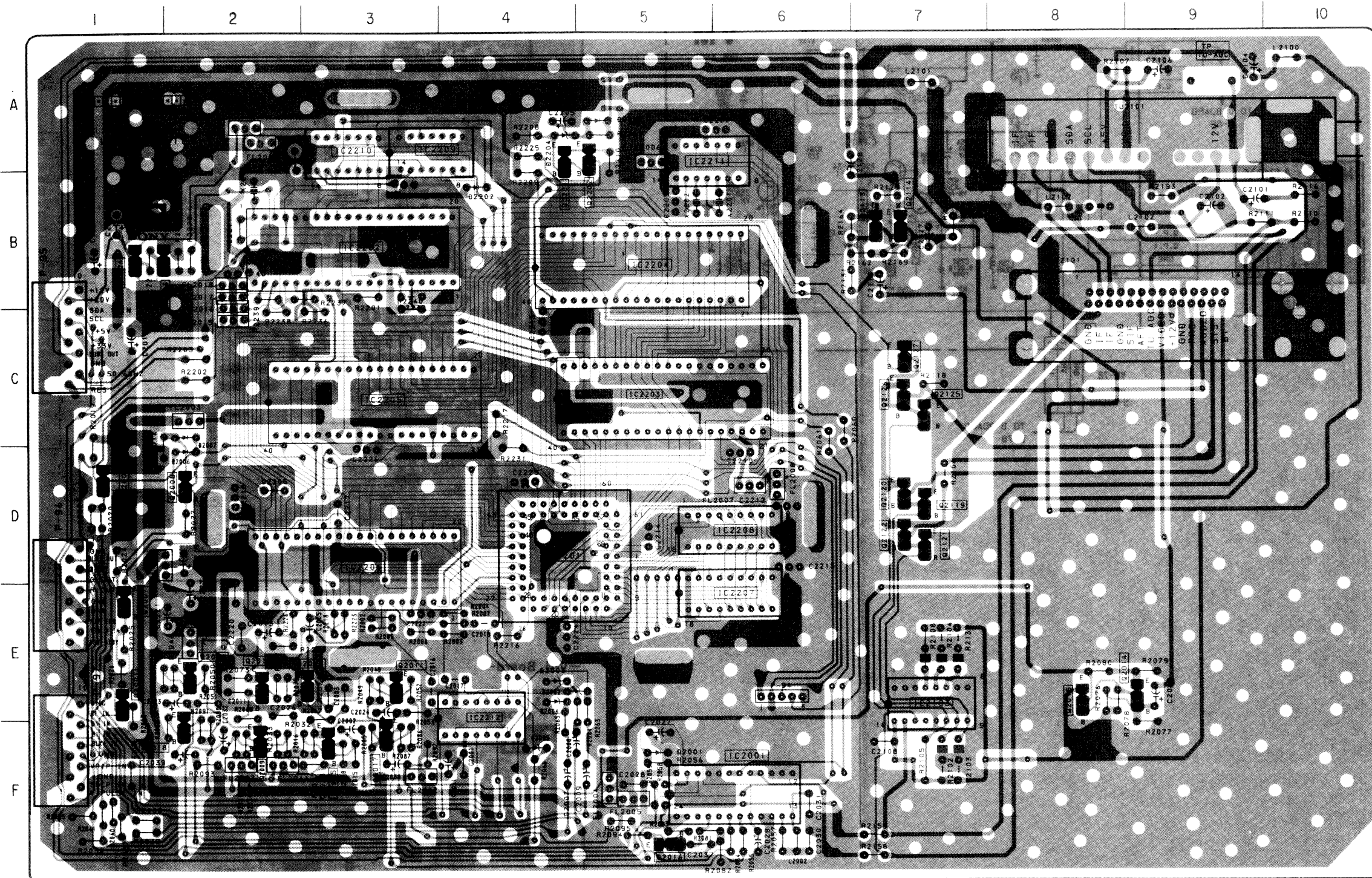
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.





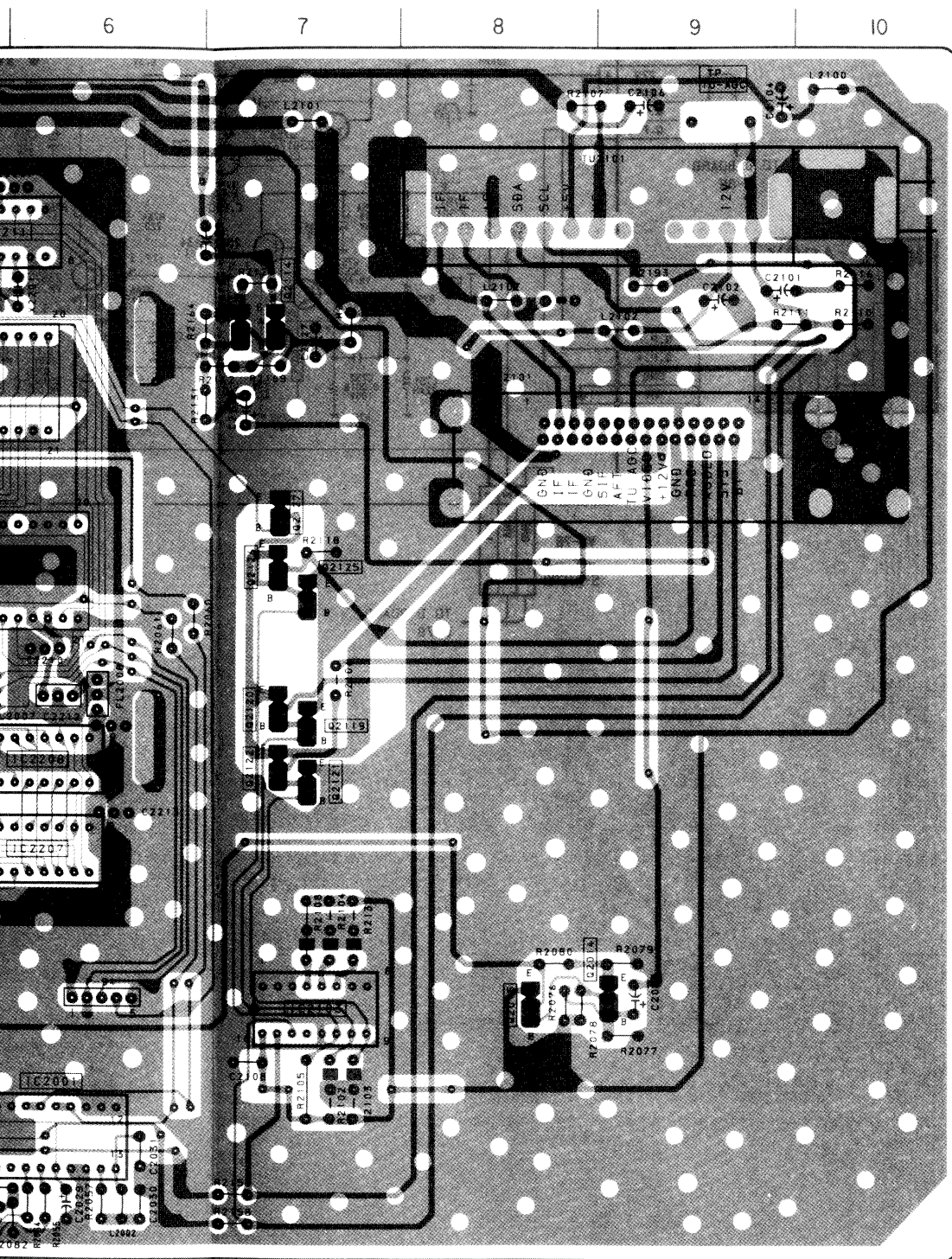
P PIP ON SCREEN DISPLAY, PIP PROCESSOR, PIP CONTROLLER,
VIDEO PROCESSOR, PLL, SECAM PROCESSOR, MEMORY,
DEFLECTION PROCESSOR, A/D D/A CONVERTOR, RGB SWITCH

—P Board—



Pattern from the side which enables seeing.
Pattern of the rear side.

IC		Q2013	E-3
IC2001	F-6	Q2014	E-9
IC2103	E-7	Q2015	E-8
IC2201	D-4	Q2016	F-5
IC2202	B-3	Q2017	F-3
IC2203	C-5	Q2018	F-2
IC2204	B-5	Q2113	B-7
IC2205	C-3	Q2114	B-7
IC2206	D-3	Q2125	C-7
IC2207	E-6	Q2126	C-7
IC2208	D-6	Q2127	C-7
IC2209	A-3	Q2201	B-4
IC2210	A-3	Q2202	B-5
IC2211	A-5	Q2203	B-1
IC2212	E-4	Q2204	B-1
TRANSISTOR		DIODE	
Q2001	E-1	D2001	F-5
Q2002		D2002	E-4
Q2003		D2003	E-4
Q2004		D2004	E-4
Q2005	F-3	D2005	F-4
Q2006	D-1	D2006	D-2
Q2007	E-1	D2007	C-2
Q2008	D-2	D2202	B-4
Q2009	F-2	D2203	A-5
Q2010	E-2	D2204	A-4
Q2011	E-3	D2205	D-2
Q2012	E-2		



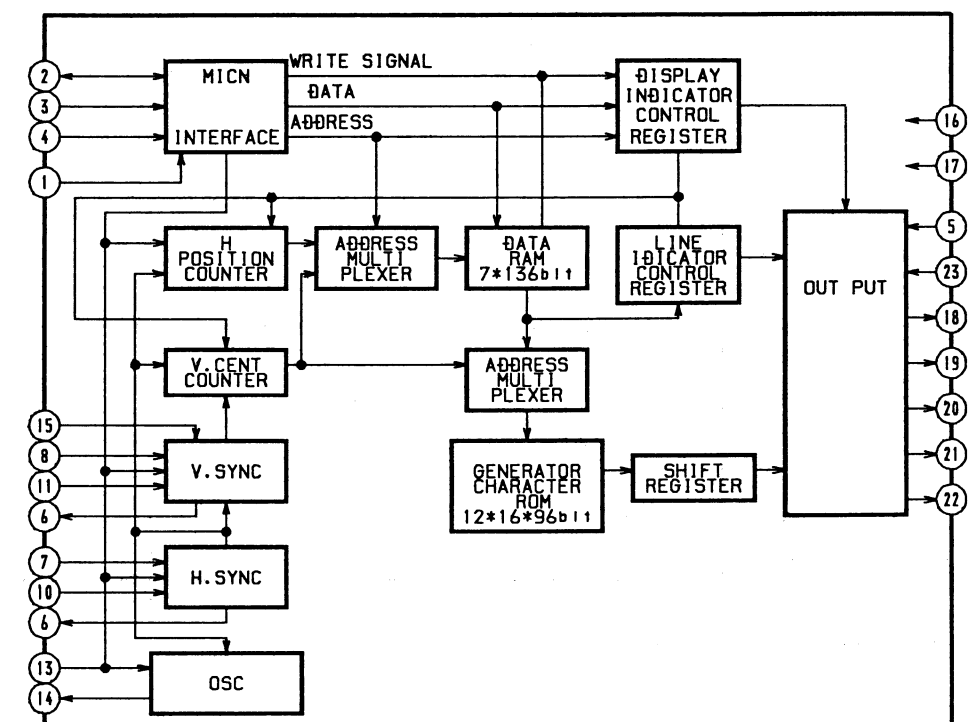
: Pattern from the side which enables seeing.

: Pattern of the rear side.

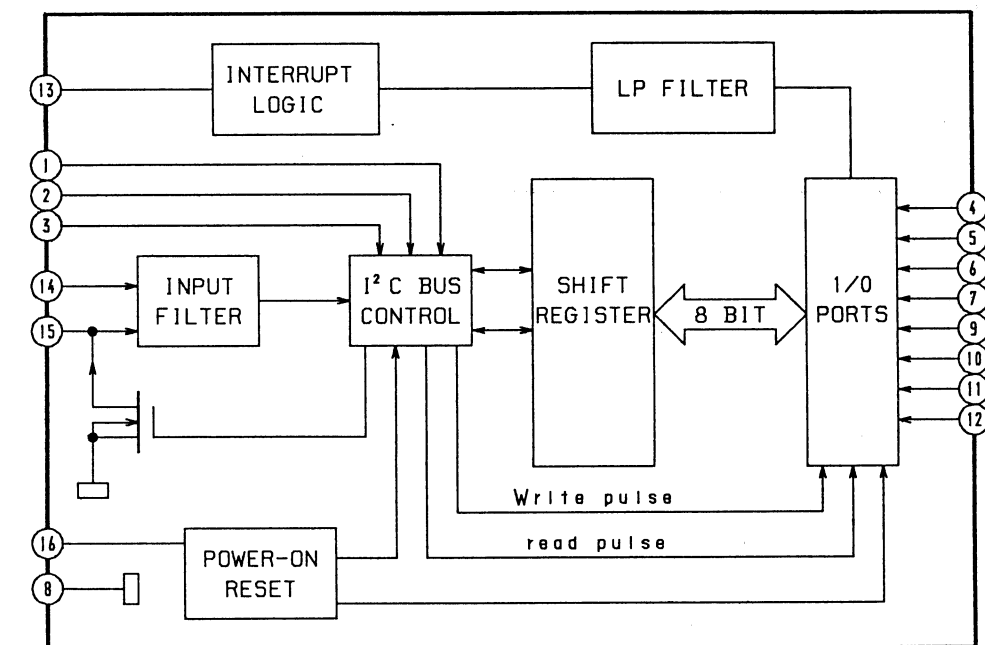
IC			
IC2001	F-6	Q2013	E-3
IC2103	E-7	Q2014	E-9
IC2201	D-4	Q2015	E-8
IC2202	B-3	Q2016	F-5
IC2203	C-5	Q2017	F-3
IC2204	B-5	Q2018	F-2
IC2205	C-3	Q2113	B-7
IC2206	D-3	Q2114	B-7
IC2207	E-6	Q2125	C-7
IC2208	D-6	Q2126	C-7
IC2209	A-3	Q2127	C-7
IC2210	A-3	Q2201	B-4
IC2211	A-5	Q2202	B-5
IC2212	E-4	Q2203	B-1
		Q2204	B-1

TRANSISTOR		DIODE	
Q2001	E-1	D2001	F-5
Q2002		D2002	E-4
Q2003		D2003	E-4
Q2004		D2004	E-4
Q2005	F-3	D2005	F-4
Q2006	D-1	D2006	D-2
Q2007	E-1	D2007	C-2
Q2008	D-2	D2202	B-4
Q2009	F-2	D2203	A-5
Q2010	E-2	D2204	A-4
Q2011	E-3	D2205	D-2
Q2012	E-2		

P BOARD IC2001 CXD1050A-09P



P BOARD IC2103 PCF8574



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A

B

C

D

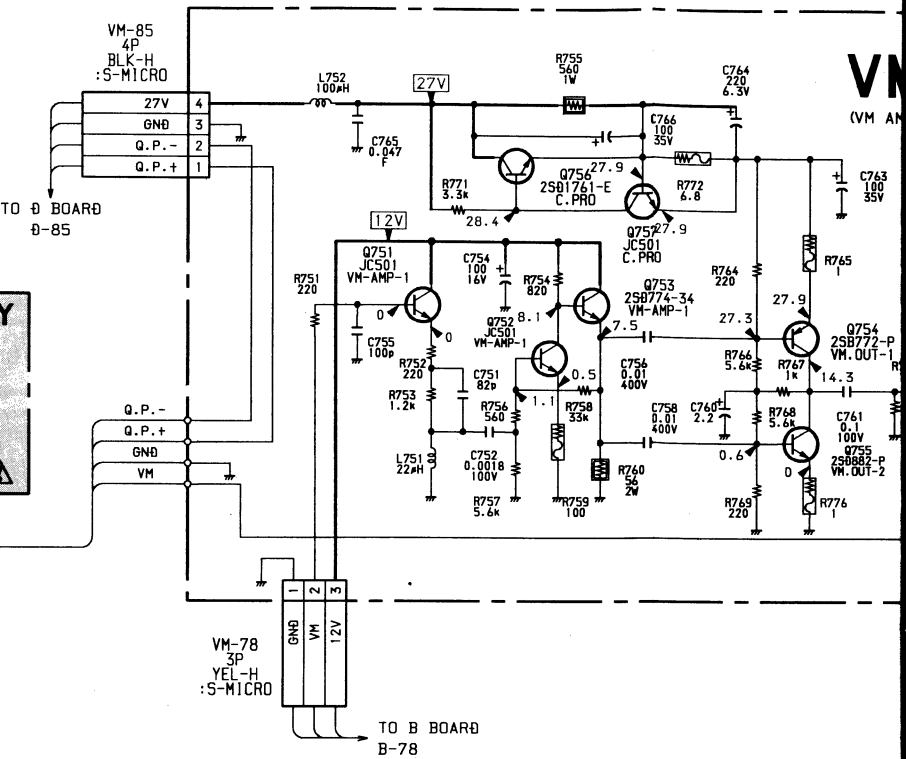
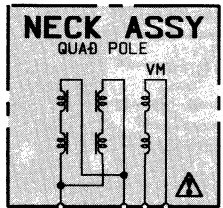
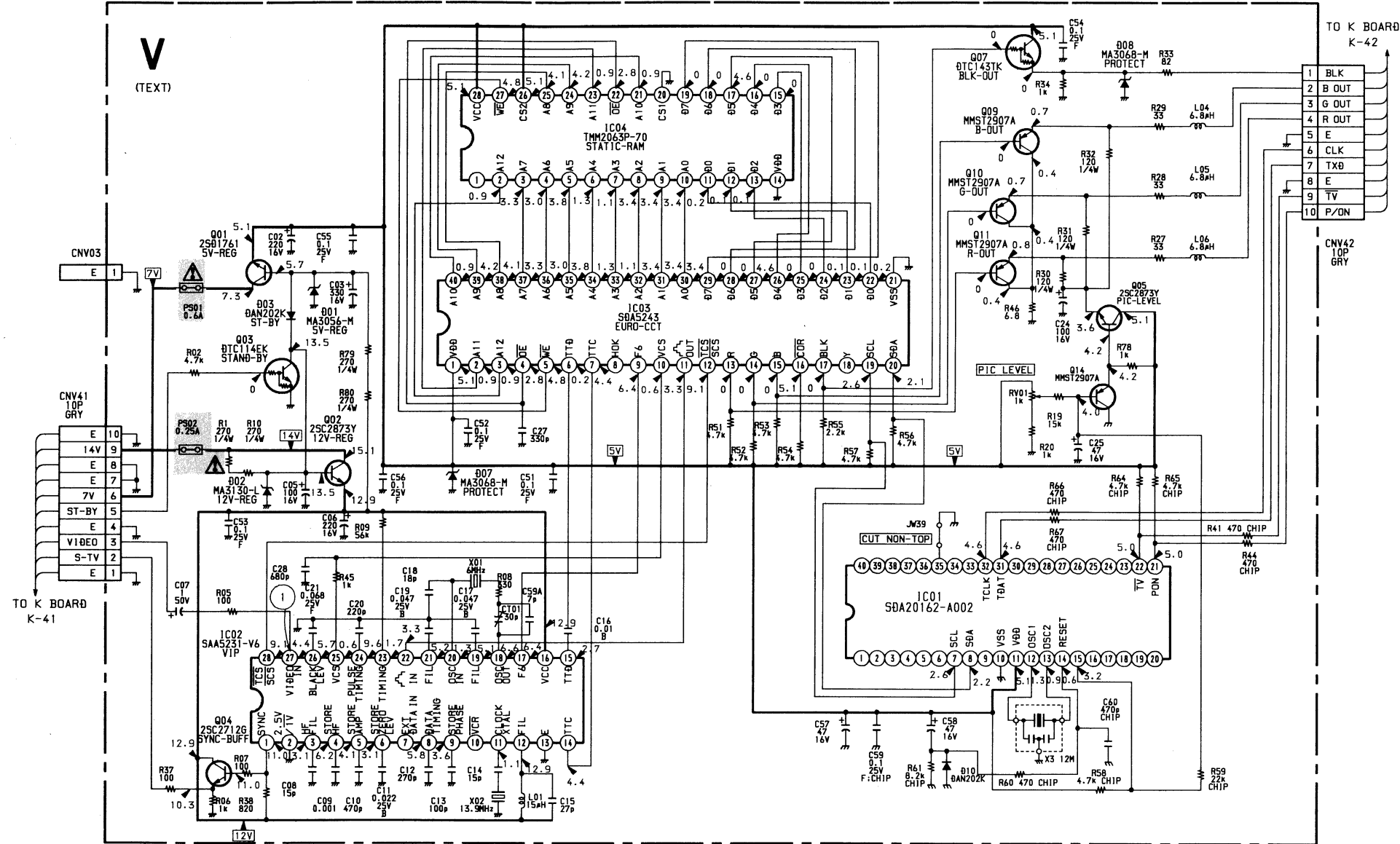
E

F

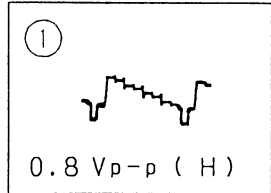
G

H

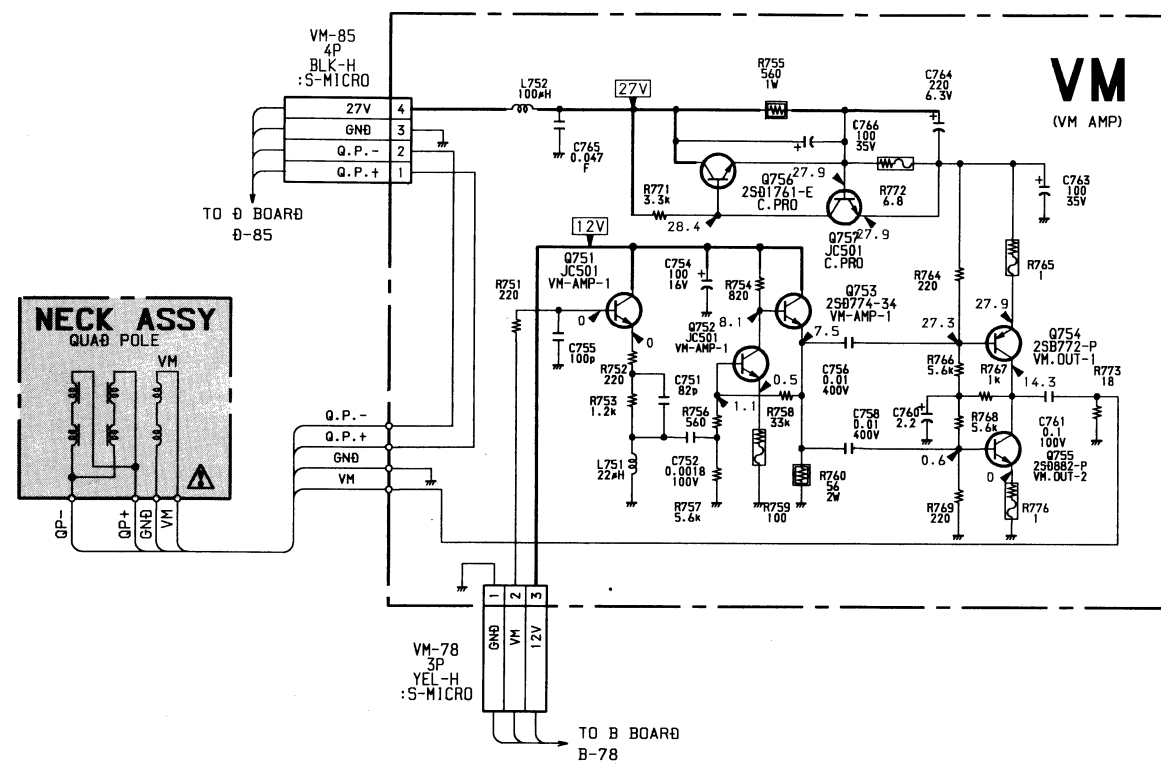
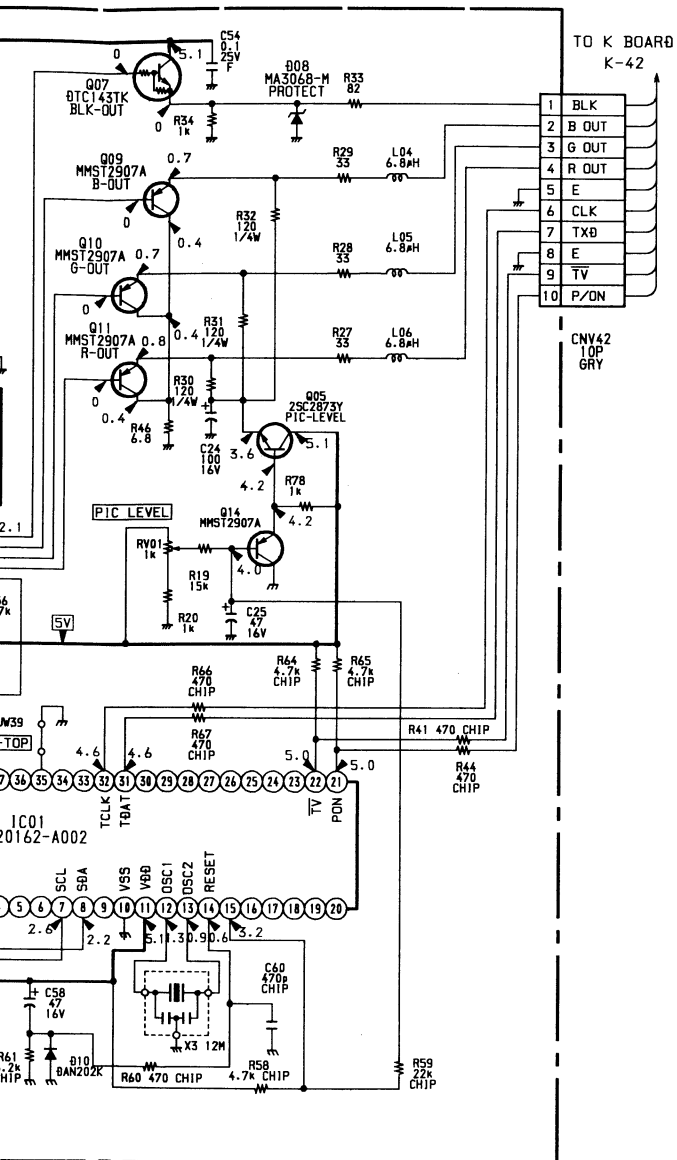
I



• WAVEFORMS V BOARD

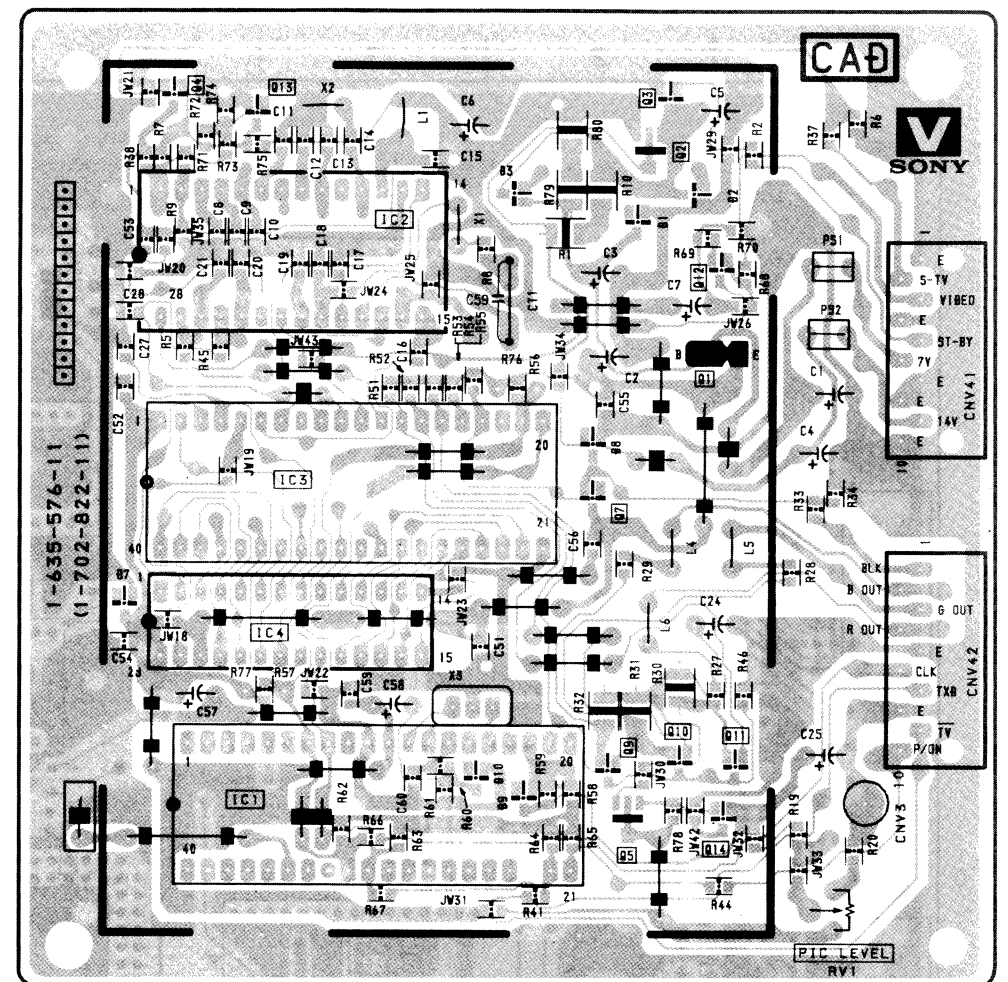


8 9 10 11 12 13 14 15 16 17

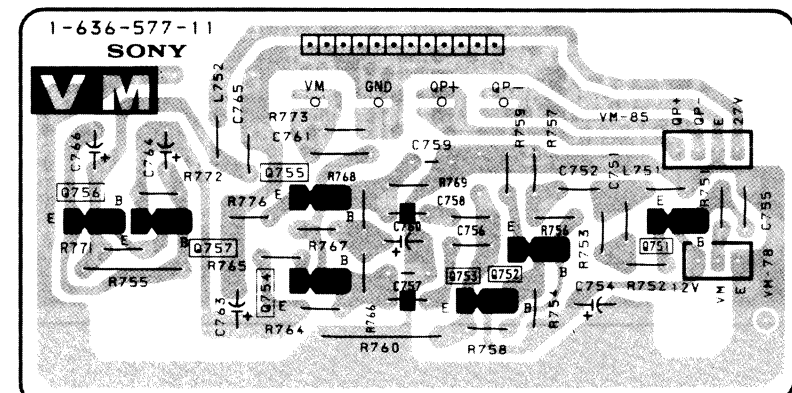


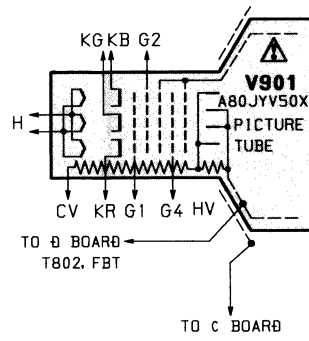
V [TEXT] VM [VM AMP]

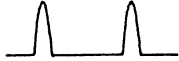
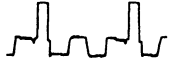


-V Board-



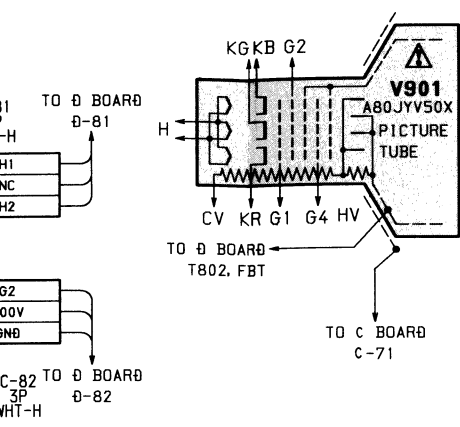
-VM Board-





<p>①</p>  <p>22 V_{p-p} (H)</p>	<p>②</p>  <p>110 V_{p-p} (H)</p>
<p>③</p>  <p>105 V_{p-p} (H)</p>	<p>④</p>  <p>100 V_{p-p} (H)</p>

IFG [SIF]



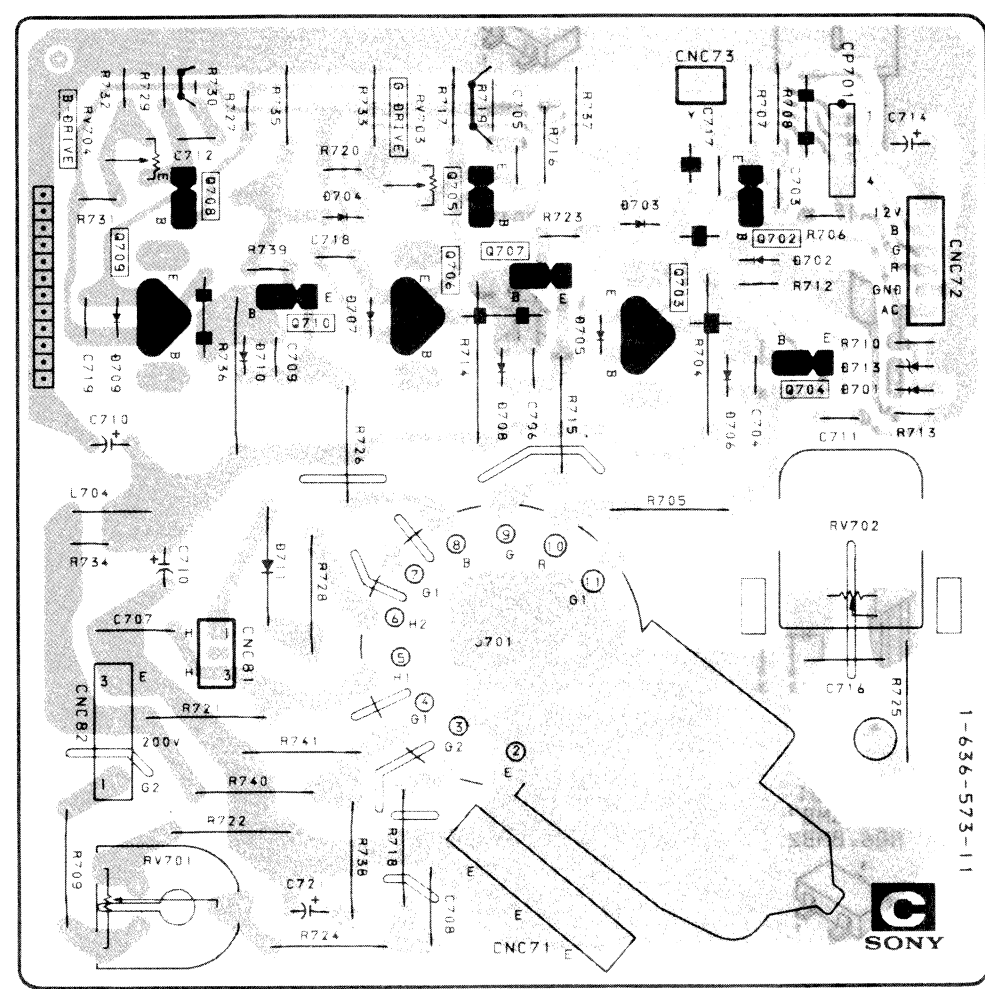
C

[R · G · B OUT]

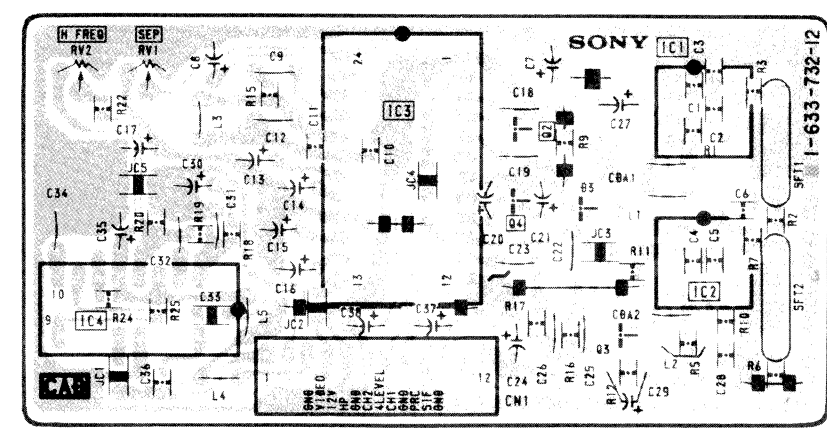
IFG

[SIF]

-C Board-

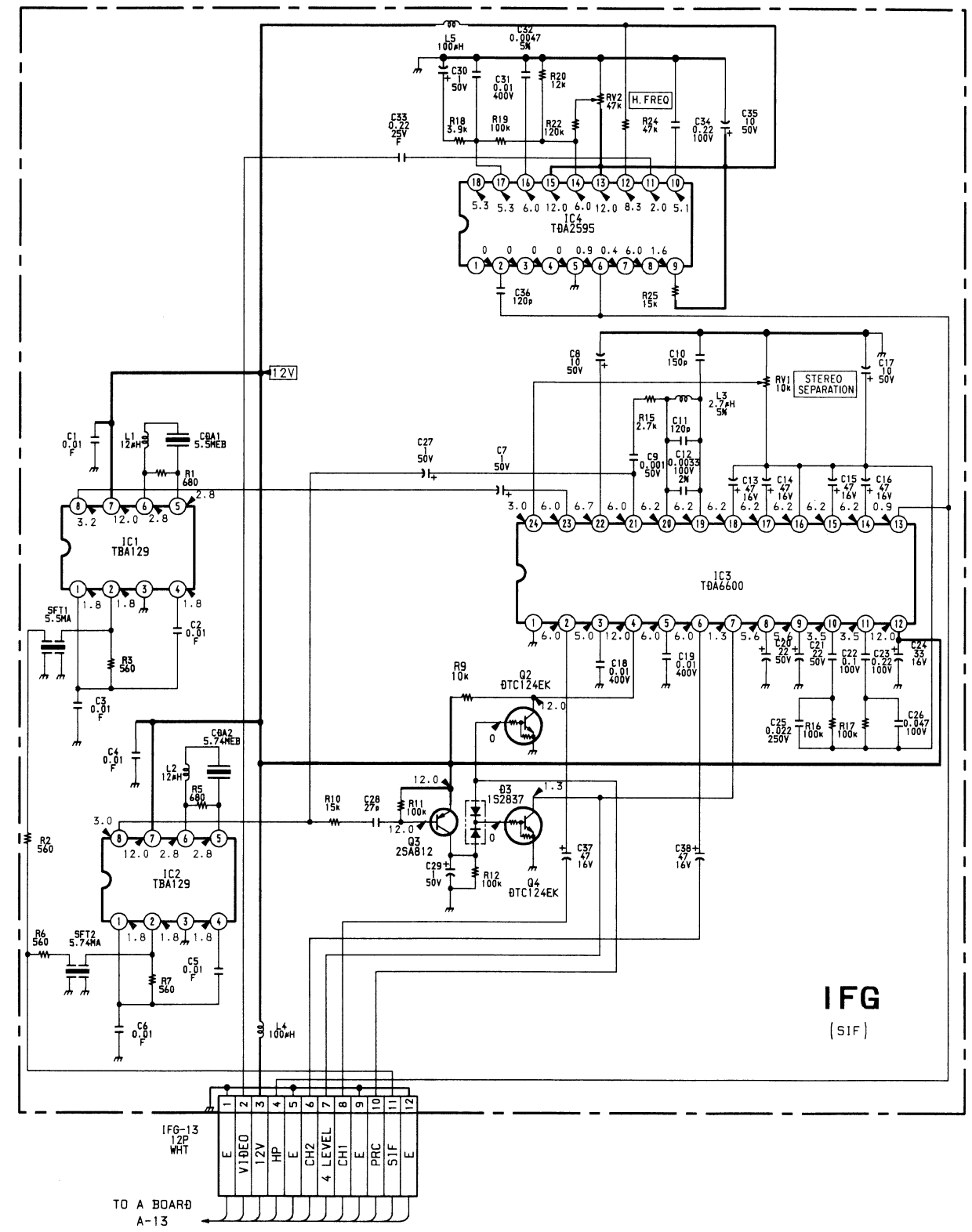


-SIF Board-



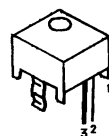
SIF102

IFG5.5S



5-4. SEMICONDUCTORS

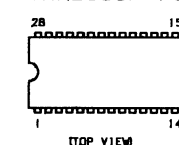
BX1387
SBX1483-11



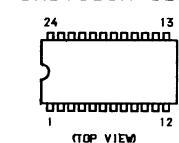
CCU2050-0343
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M0A2062
PVP02204
SAA5243P/E-M2
S0A20560-0343
S0A5243
SPU2243
VCU2133-60



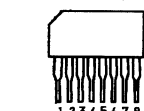
CXA1114P
SAA5231-V6
T0A4580-V4
T0A4650
T0A6200
TEA2028B
TMM2063P-70



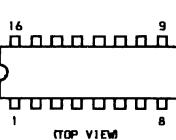
CX01050A-09P



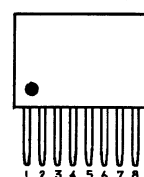
CX20061



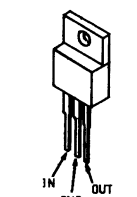
HCF4052BEY
MC14053BCP
PCF8574
TC4051BPHB
TC4052BPHB
T0A4660
T0A8442N3
TEA5114A



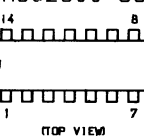
HIC2110



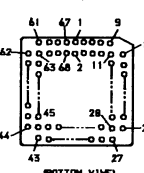
L78S05CV
RC7812FA



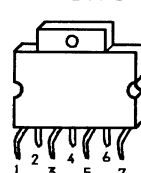
MCU2600-56



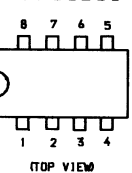
PIP2250



T0A8170



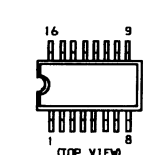
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TEA2014A
TEA2031A
#PC393C



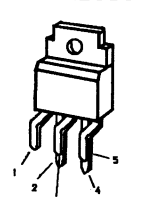
STR90120



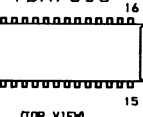
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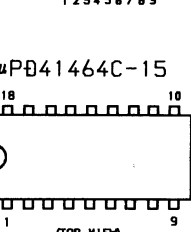
T0A2050



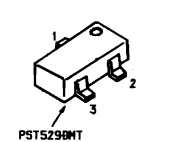
T0A7303



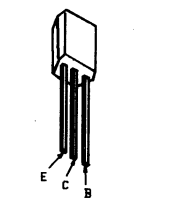
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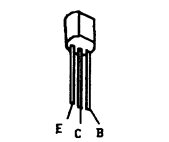
0TA144EK
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0TC124EK
0TC143TK
0TC144EK
2SA1037K-QR
2SA1162-G
2SB1295-UL6
2SC2412K-QR
2SC2712-G



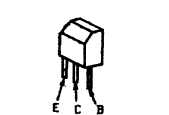
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0TC144ES



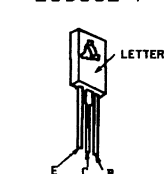
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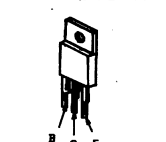
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2SB734-34
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2SD774-34



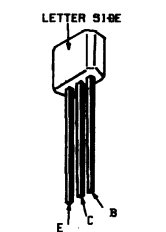
2SB772-Q
2SC2611
2SC2688-LK
2SD882-P



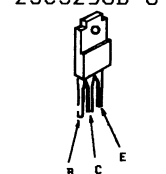
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2SC4159-E
2SD795A-P
2SD1585-K



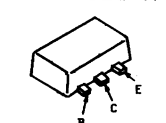
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2SC3298B-0



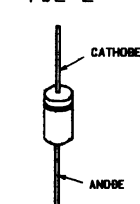
2SD1623-R



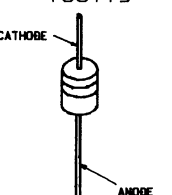
2SD1941-07



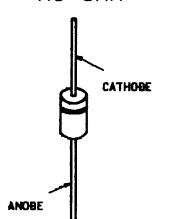
EGP20G
10E-2



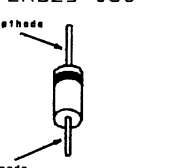
ERA83-006
R010ES-B3
R011ES-B3
R013ES-B2
R020ES-B3
R033ES-B1
R04.7ES-B2
R05.1ES-B2
R05.6ES-B2
R05.6ES-B3
R06.2ES-B2
R06.8ES-B3
R07.5ES-B2
R07.5ES-B3
R09.1ES-B3
1SS119



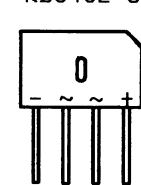
ERC06-15S
RU-3AM



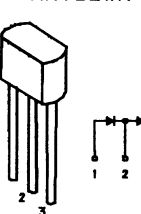
ER029-08J



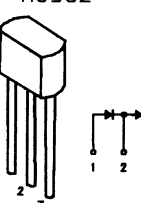
KBU4JL-6088



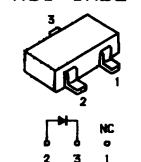
MA152WK



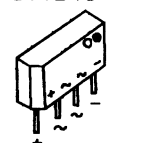
MC932



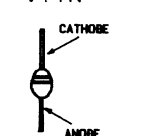
R013MB1
R05.6MB2
R06.8MB2



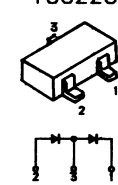
S1VB40



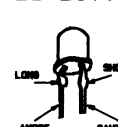
U05G
V11N



1SS226



L0-201VR



NOTE:
• Items with no description are seldom required.
• The construction part are indicated by number in the table.
• Items marked with * are for service. Some when ordering.

6-1. CHASSIS

●: BVTP3×12
○: BVTP4×12
□: BVTP4×20

25

REF. NO. PART NO.

1	*4-381-68
2	*4-374-98
3	*1-636-57
4	*1-636-57
5	*4-386-61
6	*1-636-57
7	*1-571-43
8	*4-389-20
9	*1-575-48
10	*1-636-58
11	*3-701-83
12	*A-1642-0
13	*1-439-41
14	*1-558-53
15	*1-563-20
16	*1-417-17

SECTION 6
EXPLODED VIEWS

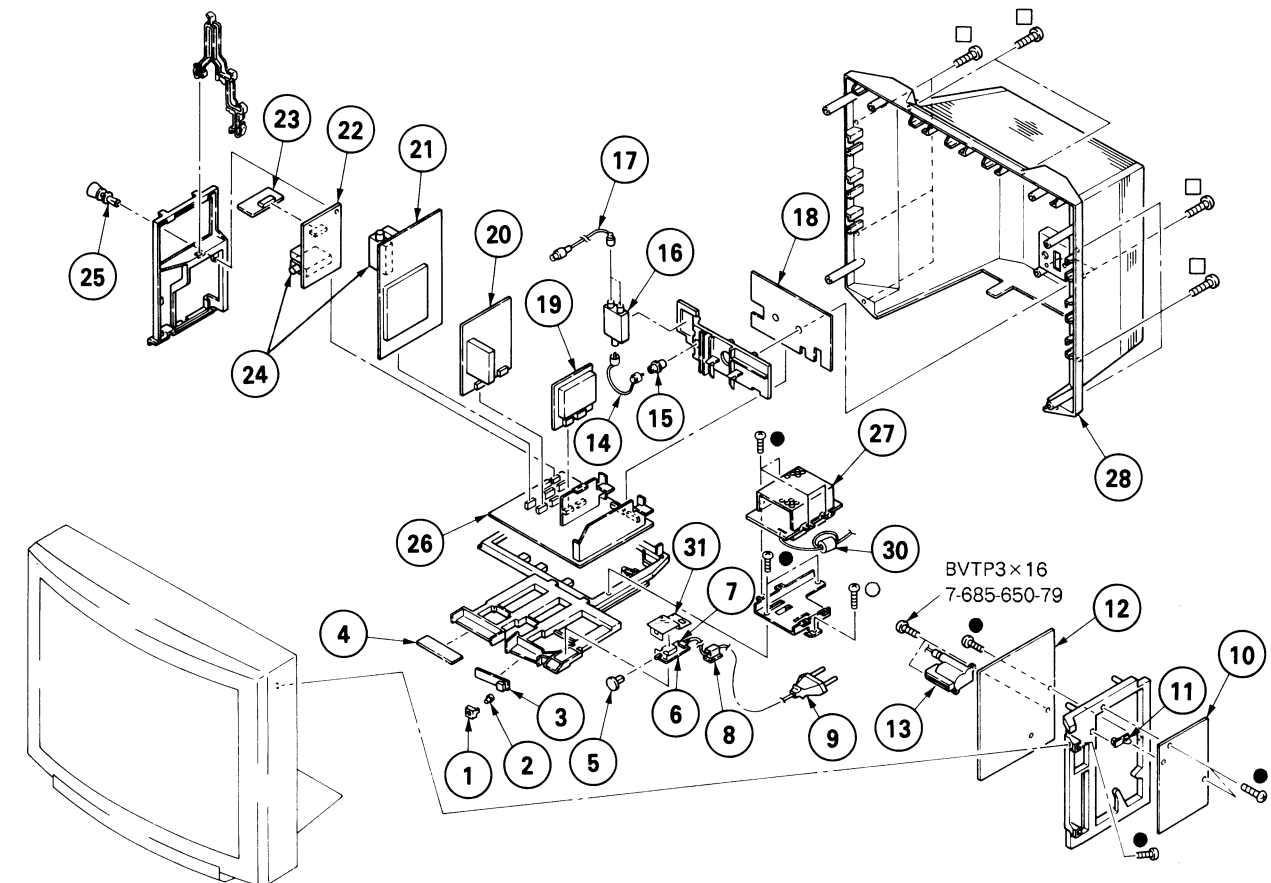
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

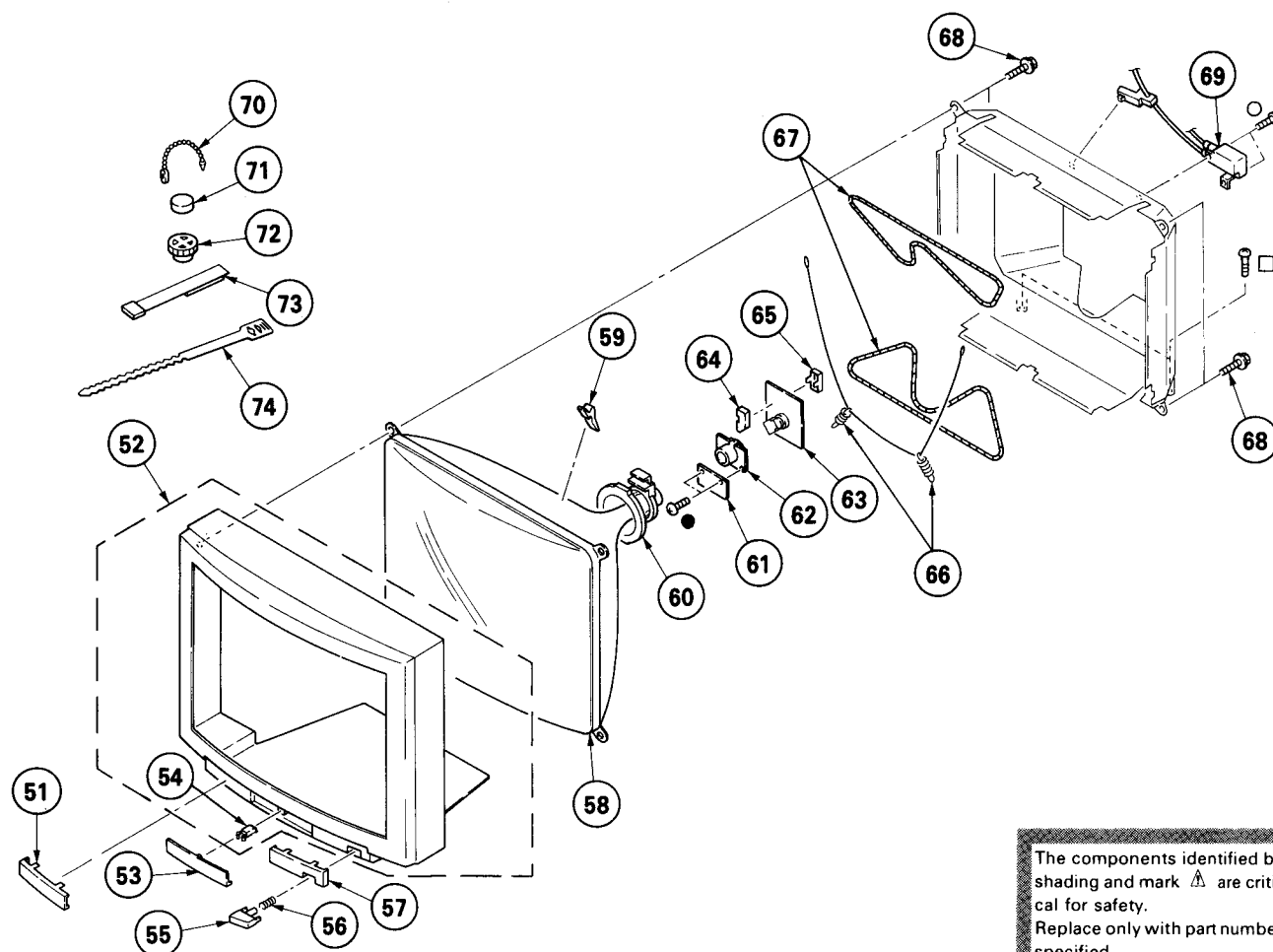
- : BVTP3×12 7-685-648-79
- : BVTP4×12 7-685-661-14
- : BVTP4×20 7-685-664-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*4-381-686-01	BRACKET (B), LIGHT GUIDE		17	1-590-127-11	CABLE, PIN	
2	*4-374-987-01	GUIDE, LIGHT		18	*A-1651-013-A	J BOARD, COMPLETE	
3	*1-636-576-11	H2 BOARD		19	*A-1645-009-A	V BOARD, COMPLETE	
4	*1-636-575-11	H1 BOARD		20	*A-1621-009-A	B BOARD, COMPLETE	
5	4-386-611-01	COVER, SWITCH		21	*A-1623-001-A	P BOARD, COMPLETE	
6	*1-636-574-11	F2 BOARD		22	*A-1632-015-A	A BOARD, COMPLETE	23
7	Δ 1-571-433-11	SWITCH, PUSH (AC POWER)		23	1-464-964-21	SIF BOARD (IF BLOCK IFG-5.5S)	
8	Δ 4-389-201-02	HOLDER, AC CORD		24	Δ 1-465-301-11	TUNER, ET (UV-816(PLL))	
9	Δ 1-575-487-11	CORD, POWER (WITH NOISE FILTER)		25	4-386-618-01	RIVET, T TYPE	
10	*1-636-582-11	F1 BOARD		26	*A-1649-001-A	K BOARD, COMPLETE	
11	*3-701-832-00	HINGE, CIRCUIT BOARD		27	Δ 1-413-583-11	G BOARD (ZD-113)	
12	*A-1642-025-A	D BOARD, COMPLETE		28	X-4200-053-1	COVER ASSY, REAR	
13	Δ 1-439-418-21	TRANSFORMER ASSY, FLYBACK (UX-1610)		30	1-543-619-11	CORE, RING	
14	*1-558-539-21	CABLE, P-P		31	4-200-274-21	COVER, POWER SWITCH	
15	Δ 1-563-204-13	SOCKET, ANTENNA (PAL/SECAM)					
16	Δ 1-417-175-12	RF SPLITTER					

6-2. PICTURE TUBE

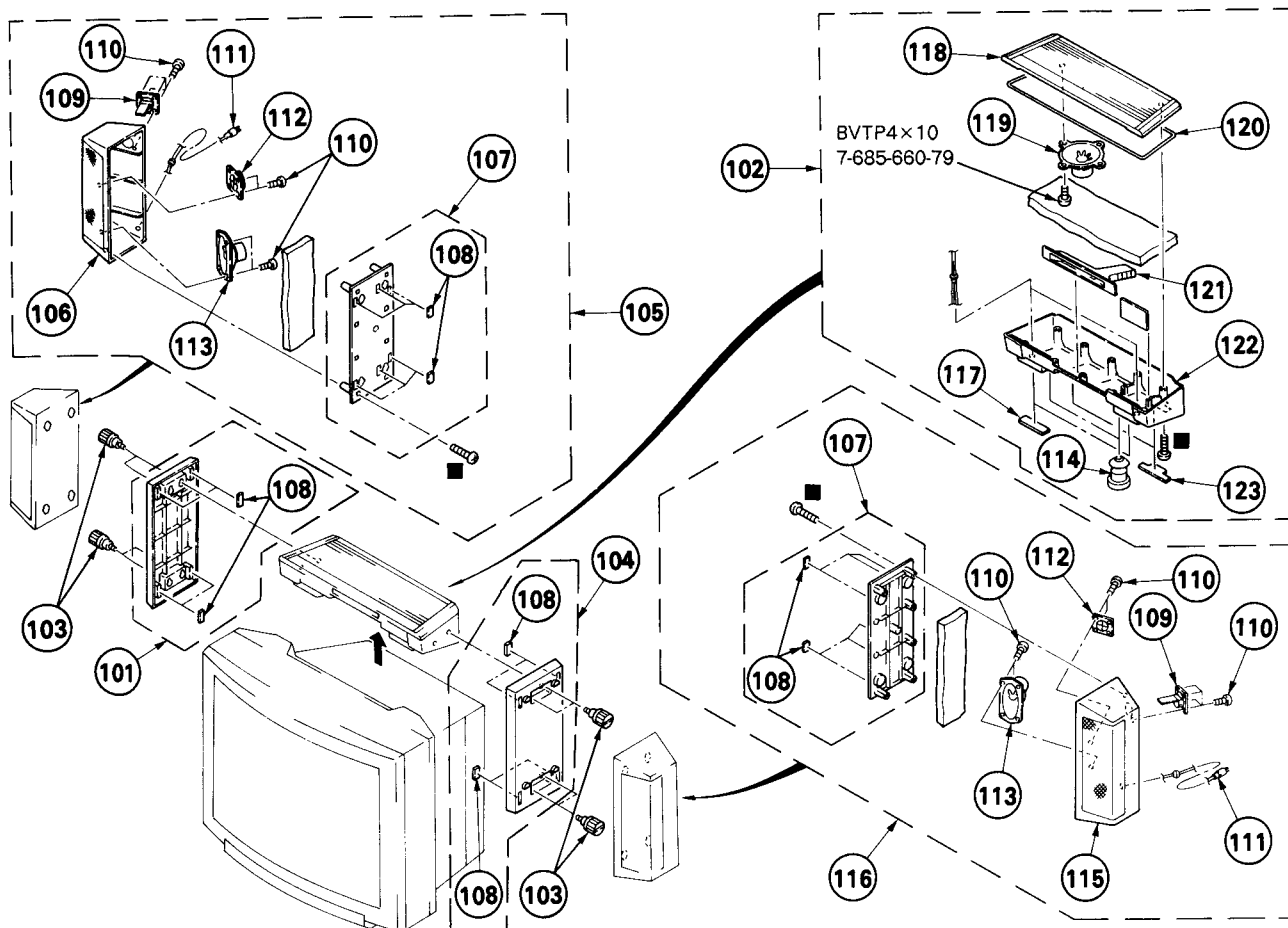
- : BVTP3×12 7-685-648-79
 ○ : BVTP4×12 7-685-661-14
 □ : BVTP4×20 7-685-664-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-200-435-01	PLATE, ORNAMENTAL		63	*A-1638-010-A	C BOARD, COMPLETE	
52	X-4200-052-1	CABINET ASSY (WITH BEZEL ASSY)	54	64	*4-379-167-01	COVER (MAIN), CV	
53	4-200-445-01	DOOR		65	*4-379-160-01	COVER (REAR LID), CV	
54	4-392-036-01	CATCHER, PUSH		66	*4-376-036-01	SPRING, TENSION	
55	4-200-444-01	BUTTON, POWER		67	Δ 1-426-433-21	COIL, DEMAGNETIZATION	
56	4-329-112-21	SPRING		68	4-373-263-11	SCREW (M), PT	
57	4-200-443-01	WINDOW, ORNAMENTAL		69	Δ 1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE	
58	Δ 8-733-723-05	PICTURE TUBE (A80JYV50X)		70	4-308-870-00	CLIP, LEAD WIRE	
59	3-704-495-01	SPACER, DY		71	1-452-032-00	MAGNET, DISK; 10MM φ	
60	Δ 1-451-315-11	DEFLECTION YOKE (Y34FXA)		72	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
61	*1-636-577-11	VM BOARD		73	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
62	Δ 1-452-468-11	NECK ASSY, PICTURE TUBE (NA321)		74	3-701-007-00	BAND, BINDING	

6-3. SPEAKER

■ : BVTP4×16 7-685-663-79




REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	X-4200-061-1	SPACER ASSY, SIDE(L)		108	113	SPEAKER	
102	A-1678-025-A	BOX COMPLETE ASSY, WOOFER	114, 117-123	114	1-236-960-11	NETWORK, DIVIDING	
103	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL		115	X-4200-054-1	BOX ASSY, SIDE (R)	
104	X-4200-060-1	SPACER ASSY, SIDE(R)		116	*A-1678-023-A	BOX ASSY (RIGHT), SPEAKER	107-113, 115
105	*A-1678-024-A	BOX ASSY (LEFT), SPEAKER		117	4-200-473-01	CUSHION, FOOT (B)	
106	X-4200-057-1	BOX ASSY, SIDE (L)	106-113	118	4-200-469-01	BOARD, BAFFLE, WOOFER	
107	X-4200-056-1	BOTTOM ASSY, SIDE	108	119	1-544-192-11	SPEAKER	
108	4-200-006-11	CUSHION, FOOT		120	4-200-471-01	GASKET	
109	1-236-510-21	NETWORK, DIVIDING		121	*4-200-470-01	TUBE, BASS REFLEX	
110	4-364-802-00	SCREW (3.5X13)		122	X-4200-059-1	BOX ASSY, WOOFER	
111	1-575-024-11	CORD, SPEAKER (WITH PLUG)		123	4-200-472-01	CUSHION, FOOT (A)	
112	1-544-203-11	SPEAKER					

SECTION 7 ELECTRICAL PARTS LIST

KV-D3431D
RM-811

B

NOTE:

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

• All resistors are in ohms
• F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μ F, PF : μ F

COILS

• MMH : mH, UH : μ H

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1621-009-A	B BOARD, COMPLETE *****		C341	1-164-232-11	CERAMIC CHIP 0.01MF	50V
	*1-508-784-00	PIN, CONNECTOR (5MM PITCH 1P)		C342	1-124-791-11	ELECT 1MF	20% 50V
	*1-564-518-11	PLUG, CONNECTOR 3P		C343	1-164-232-11	CERAMIC CHIP 0.01MF	50V
	*1-564-521-11	PLUG, CONNECTOR 6P		C344	1-124-791-11	ELECT 1MF	20% 50V
	*1-565-393-11	CONNECTOR, BOARD TO BOARD		C345	1-106-383-00	MYLAR 0.047MF	10% 100V
<CAPACITOR>				C346	1-130-783-00	MYLAR 0.33MF	10% 100V
C301	1-106-228-00	MYLAR 0.22MF	10% 100V	C347	1-106-220-00	MYLAR 0.1MF	10% 100V
C302	1-106-228-00	MYLAR 0.22MF	10% 100V	C348	1-106-375-12	MYLAR 0.022MF	10% 250V
C303	1-124-122-11	ELECT 100MF	20% 50V	C349	1-106-375-12	MYLAR 0.022MF	10% 250V
C304	1-106-228-00	MYLAR 0.22MF	10% 100V	C350	1-124-927-11	ELECT 4.7MF	20% 50V
C305	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C351	1-106-375-12	MYLAR 0.022MF	10% 250V
C306	1-124-902-00	ELECT 0.47MF	20% 50V	C352	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C307	1-124-902-00	ELECT 0.47MF	20% 50V	C353	1-126-101-11	ELECT 100MF	20% 16V
C308	1-124-902-00	ELECT 0.47MF	20% 50V	C354	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C309	1-124-902-00	ELECT 0.47MF	20% 50V	C356	1-126-101-11	ELECT 100MF	20% 16V
C310	1-106-220-00	MYLAR 0.1MF	10% 100V	C357	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C311	1-106-220-00	MYLAR 0.1MF	10% 100V	C358	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C312	1-124-902-00	ELECT 0.47MF	20% 50V	C359	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C313	1-124-902-00	ELECT 0.47MF	20% 50V	C360	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C314	1-124-902-00	ELECT 0.47MF	20% 50V	C361	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C315	1-124-791-11	ELECT 1MF	20% 50V	C363	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C316	1-124-927-11	ELECT 4.7MF	20% 50V	C365	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C317	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C367	1-102-963-00	CERAMIC 33PF	5% 50V
C318	1-124-927-11	ELECT 4.7MF	20% 50V	C370	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C319	1-124-927-11	ELECT 4.7MF	20% 50V	C371	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C320	1-124-910-11	ELECT 47MF	20% 50V	C372	1-124-477-11	ELECT 47MF	20% 16V
C321	1-124-791-11	ELECT 1MF	20% 50V	C373	1-124-477-11	ELECT 47MF	20% 16V
C322	1-163-077-00	CERAMIC CHIP 0.1MF	50V	C374	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C323	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C375	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C324	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C376	1-124-963-11	ELECT 33MF	20% 16V
C325	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C377	1-124-119-00	ELECT 330MF	20% 16V
C326	1-124-910-11	ELECT 47MF	20% 50V	C378	1-124-963-11	ELECT 33MF	20% 16V
C327	1-124-910-11	ELECT 47MF	20% 50V	C379	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C328	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C380	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C329	1-163-123-00	CERAMIC CHIP 180PF	5% 50V	C381	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C330	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C382	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C331	1-106-220-00	MYLAR 0.1MF	10% 100V	C383	1-163-197-00	CERAMIC CHIP 470PF	5% 50V
C332	1-106-220-00	MYLAR 0.1MF	10% 100V	C384	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C333	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C385	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C334	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C386	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C335	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C387	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C336	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C388	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C337	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C389	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C338	1-106-375-12	MYLAR 0.022MF	10% 250V	C1301	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C339	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C1302	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C340	1-126-103-11	ELECT 470MF	20% 16V	<TRIMMER>			
				CT301	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)	
				CT302	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)	

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>				<INDUCTOR>			
D301	8-719-911-19	DIODE 1SS119		L310	1-408-419-00	INDUCTOR 68UH	
D302	8-719-911-19	DIODE 1SS119		L312	1-404-495-00	COIL	
D303	8-719-911-19	DIODE 1SS119		L313	1-404-554-11	COIL	
D304	8-719-911-19	DIODE 1SS119		L314	1-408-409-00	INDUCTOR 10UH	
D305	8-719-911-19	DIODE 1SS119		L315	1-410-868-11	INDUCTOR 4.7UH	
				L316	1-408-397-00	INDUCTOR 1UH	
D306	8-719-980-78	DIODE ERA83-006		<TRANSISTOR>			
D307	8-719-110-23	DIODE RD11ES-B3		Q301	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D309	8-719-911-19	DIODE 1SS119		Q302	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D310	8-719-110-23	DIODE RD11ES-B3		Q303	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D311	8-719-110-23	DIODE RD11ES-B3		Q304	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q305	8-729-901-06	TRANSISTOR DTA144EK	
D312	8-719-110-23	DIODE RD11ES-B3		Q306	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D313	8-719-911-19	DIODE 1SS119		Q307	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D314	8-719-911-19	DIODE 1SS119		Q308	8-729-901-00	TRANSISTOR DTC124EK	
D315	8-719-911-19	DIODE 1SS119		Q309	8-729-901-00	TRANSISTOR DTC124EK	
D316	8-719-911-19	DIODE 1SS119		Q310	8-729-901-00	TRANSISTOR DTC124EK	
D317	8-719-911-19	DIODE 1SS119		Q311	8-729-901-00	TRANSISTOR DTC124EK	
D318	8-719-911-19	DIODE 1SS119		Q312	8-729-216-22	TRANSISTOR 2SA1162-G	
D319	8-719-911-19	DIODE 1SS119		Q313	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D320	8-719-911-19	DIODE 1SS119		Q320	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D321	8-719-109-90	DIODE RD5.6ES-B3		Q321	8-729-920-71	TRANSISTOR 2SA1037K-QR	
D322	8-719-911-19	DIODE 1SS119		Q322	8-729-216-22	TRANSISTOR 2SA1162-G	
D323	8-719-911-19	DIODE 1SS119		Q323	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D324	8-719-800-76	DIODE 1SS226		Q324	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D325	8-719-800-76	DIODE 1SS226		Q327	8-729-216-22	TRANSISTOR 2SA1162-G	
D326	8-719-800-76	DIODE 1SS226		Q328	8-729-216-22	TRANSISTOR 2SA1162-G	
D327	8-719-911-19	DIODE 1SS119		Q329	8-729-216-22	TRANSISTOR 2SA1162-G	
D329	8-719-109-62	DIODE RD3.OES-B1		Q330	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D330	8-719-911-19	DIODE 1SS119		Q331	8-729-216-22	TRANSISTOR 2SA1162-G	
D331	8-719-911-19	DIODE 1SS119		Q332	8-729-216-22	TRANSISTOR 2SA1162-G	
D332	8-719-911-19	DIODE 1SS119		Q333	8-729-901-00	TRANSISTOR DTC124EK	
D333	8-719-911-19	DIODE 1SS119		Q334	8-729-901-00	TRANSISTOR DTC124EK	
D334	8-719-911-19	DIODE 1SS119		Q335	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D335	8-719-911-19	DIODE 1SS119		Q336	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D336	8-719-911-19	DIODE 1SS119		Q337	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D337	8-719-911-19	DIODE 1SS119		Q338	8-729-216-22	TRANSISTOR 2SA1162-G	
D338	8-719-911-19	DIODE 1SS119		Q339	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D339	8-719-911-19	DIODE 1SS119		Q340	8-729-920-74	TRANSISTOR 2SC2412K-QR	
<DELAY LINE>				Q341	8-729-920-74	TRANSISTOR 2SC2412K-QR	
DL301	1-415-613-11	DELAY LINE, Y		Q342	8-729-920-74	TRANSISTOR 2SC2412K-QR	
<IC>				Q343	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC301	8-759-503-41	IC TDA4580-V6		Q344	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC302	8-759-980-60	IC TDA8442N3		Q345	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC303	8-759-990-30	IC TDA4660		Q346	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC304	8-759-990-29	IC TDA4650		Q347	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC306	8-759-501-49	IC HCF4052BEY		Q348	8-729-901-00	TRANSISTOR DTC124EK	
IC308	8-752-006-12	IC CX20061		Q1302	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC1301	1-235-534-11	CONTROL MODULE, PICTURE		Q1303	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC1312	8-741-650-21	IC SBX1650-21		<RESISTOR>			
<COIL>				R301	1-216-033-00	METAL GLAZE 220 5%	1/10W
L301	1-410-868-11	INDUCTOR 4.7UH		R302	1-216-033-00	METAL GLAZE 220 5%	1/10W
L303	1-404-554-11	COIL		R303	1-216-033-00	METAL GLAZE 220 5%	1/10W
L304	1-410-868-11	INDUCTOR 4.7UH		R304	1-216-081-00	METAL GLAZE 22K 5%	1/10W
L305	1-408-402-00	INDUCTOR 2.7UH		R305	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
L306	1-410-868-11	INDUCTOR 4.7UH		R306	1-216-184-00	METAL GLAZE 270 5%	1/8W
L308	1-404-495-00	COIL		R307	1-216-097-00	METAL GLAZE 100K 5%	1/10W
L309	1-408-415-00	INDUCTOR 33UH		R308	1-216-184-00	METAL GLAZE 270 5%	1/8W
				R309	1-216-025-00	METAL GLAZE 100 5%	1/10W
				R310	1-216-025-00	METAL GLAZE 100 5%	1/10W

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R311	1-216-025-00	METAL GLAZE	100 5% 1/10W	R377	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R312	1-216-033-00	METAL GLAZE	220 5% 1/10W	R378	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R313	1-216-033-00	METAL GLAZE	220 5% 1/10W	R379	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R314	1-216-033-00	METAL GLAZE	220 5% 1/10W	R380	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R315	1-216-037-00	METAL GLAZE	330 5% 1/10W	R381	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R316	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R382	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R317	1-216-033-00	METAL GLAZE	220 5% 1/10W	R383	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R320	1-216-198-00	METAL GLAZE	1K 5% 1/8W	R384	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R321	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R385	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R322	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R386	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R323	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R387	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R324	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R388	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
R325	1-216-033-00	METAL GLAZE	220 5% 1/10W	R389	1-216-025-00	METAL GLAZE	100 5% 1/10W
R326	1-216-029-00	METAL GLAZE	150 5% 1/10W	R390	1-216-025-00	METAL GLAZE	100 5% 1/10W
R327	1-216-029-00	METAL GLAZE	150 5% 1/10W	R391	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R328	1-216-029-00	METAL GLAZE	150 5% 1/10W	R392	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R329	1-216-031-00	METAL GLAZE	180 5% 1/10W	R393	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R330	1-216-031-00	METAL GLAZE	180 5% 1/10W	R394	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R331	1-216-031-00	METAL GLAZE	180 5% 1/10W	R395	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R332	1-216-182-00	METAL GLAZE	220 5% 1/8W	R396	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R333	1-216-033-00	METAL GLAZE	220 5% 1/10W	R397	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R334	1-249-422-11	CARBON	2.7K 5% 1/4W	R398	1-216-035-00	METAL GLAZE	270 5% 1/10W
R335	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R399	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R336	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R400	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W
R337	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R401	1-216-031-00	METAL GLAZE	180 5% 1/10W
R338	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R402	1-216-047-00	METAL GLAZE	820 5% 1/10W
R339	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R403	1-216-035-00	METAL GLAZE	270 5% 1/10W
R340	1-216-103-00	METAL GLAZE	180K 5% 1/10W	R404	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
R341	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R405	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R342	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R406	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R343	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R407	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R344	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R408	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R345	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R409	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R346	1-216-033-00	METAL GLAZE	220 5% 1/10W	R410	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
R347	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R411	1-216-033-00	METAL GLAZE	220 5% 1/10W
R348	1-216-001-00	METAL GLAZE	10 5% 1/10W	R412	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R349	1-216-001-00	METAL GLAZE	10 5% 1/10W	R413	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R350	1-216-184-00	METAL GLAZE	270 5% 1/8W	R414	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R351	1-216-184-00	METAL GLAZE	270 5% 1/8W	R415	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R352	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R416	1-216-047-00	METAL GLAZE	820 5% 1/10W
R353	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R417	1-216-031-00	METAL GLAZE	180 5% 1/10W
R354	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R418	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R355	1-216-033-00	METAL GLAZE	220 5% 1/10W	R419	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R356	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R420	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R357	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R421	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R358	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R422	1-216-047-00	METAL GLAZE	820 5% 1/10W
R359	1-216-041-00	METAL GLAZE	470 5% 1/10W	R423	1-216-047-00	METAL GLAZE	820 5% 1/10W
R360	1-216-041-00	METAL GLAZE	470 5% 1/10W	R424	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R361	1-216-001-00	METAL GLAZE	10 5% 1/10W	R425	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R362	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R426	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R363	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R427	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R364	1-216-033-00	METAL GLAZE	220 5% 1/10W	R428	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R365	1-216-035-00	METAL GLAZE	270 5% 1/10W	R429	1-216-041-00	METAL GLAZE	470 5% 1/10W
R366	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R430	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R367	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R431	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R368	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R432	1-216-045-00	METAL GLAZE	680 5% 1/10W
R369	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R434	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R370	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R435	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R371	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1301	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R372	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1302	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R373	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1303	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R374	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1304	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R375	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1305	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R376	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1306	1-216-033-00	METAL GLAZE	220 5% 1/10W	C2209	1-101-004-00	CERAMIC	0.01MF 50V
R1307	1-249-428-11	CARBON	8.2K 5% 1/4W	C2210	1-101-005-00	CERAMIC	0.022MF 50V
<VARIABLE RESISTOR>				C2211	1-102-936-00	CERAMIC	3PF 0.25PF 50V
RV301	1-238-012-11	RES, ADJ, CARBON 1K		C2212	1-101-005-00	CERAMIC	0.022MF 50V
<CRYSTAL>				C2213	1-101-005-00	CERAMIC	0.022MF 50V
X301	1-567-307-11	OSCILLATOR, CRYSTAL		C2214	1-101-005-00	CERAMIC	0.022MF 50V
X302	1-567-131-00	OSCILLATOR, CRYSTAL		C2215	1-101-005-00	CERAMIC	0.022MF 50V
*****				C2217	1-101-005-00	CERAMIC	0.022MF 50V
*A-1623-001-A	P BOARD, COMPLETE			C2218	1-101-005-00	CERAMIC	0.022MF 50V
*****				C2219	1-124-122-11	ELECT	100MF 20% 50V
*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P			C2220	1-101-005-00	CERAMIC	0.022MF 50V
*1-565-393-11	CONNECTOR, BOARD TO BOARD			C2221	1-124-122-11	ELECT	100MF 20% 50V
<CAPACITOR>				C2222	1-101-005-00	CERAMIC	0.022MF 50V
C2001	1-101-005-00	CERAMIC	0.022MF 50V	C2223	1-124-925-11	ELECT	2.2MF 20% 50V
C2002	1-124-927-11	ELECT	4.7MF 20% 50V	C2224	1-101-005-00	CERAMIC	0.022MF 50V
C2003	1-101-880-00	CERAMIC	47PF 5% 50V	C2225	1-101-005-00	CERAMIC	0.022MF 50V
C2005	1-124-925-11	ELECT	2.2MF 20% 50V	C2226	1-101-005-00	CERAMIC	0.022MF 50V
C2007	1-130-834-00	MYLAR	1MF 10% 63V	C2227	1-124-122-11	ELECT	100MF 20% 50V
C2008	1-130-834-00	MYLAR	1MF 10% 63V	C2228	1-101-005-00	CERAMIC	0.022MF 50V
C2009	1-130-834-00	MYLAR	1MF 10% 63V	<DIODE>			
C2011	1-101-880-00	CERAMIC	47PF 5% 50V	D2001	8-719-911-19	DIODE 1SS119	
C2012	1-101-880-00	CERAMIC	47PF 5% 50V	D2002	8-719-109-85	DIODE RD5.1ES-B2	
C2013	1-124-925-11	ELECT	2.2MF 20% 50V	D2003	8-719-109-85	DIODE RD5.1ES-B2	
C2015	1-124-122-11	ELECT	100MF 20% 50V	D2004	8-719-109-85	DIODE RD5.1ES-B2	
C2016	1-106-220-00	MYLAR	0.1MF 10% 100V	D2005	8-719-109-85	DIODE RD5.1ES-B2	
C2017	1-106-220-00	MYLAR	0.1MF 10% 100V	D2006	8-719-911-19	DIODE 1SS119	
C2018	1-106-220-00	MYLAR	0.1MF 10% 100V	D2007	8-719-911-19	DIODE 1SS119	
C2022	1-124-122-11	ELECT	100MF 20% 50V	D2202	8-719-911-19	DIODE 1SS119	
C2023	1-124-902-00	ELECT	0.47MF 20% 50V	D2203	8-719-911-19	DIODE 1SS119	
C2024	1-124-902-00	ELECT	0.47MF 20% 50V	D2204	8-719-110-03	DIODE RD7.5ES-B2	
C2025	1-101-004-00	CERAMIC	0.01MF 50V	D2205	8-719-911-19	DIODE 1SS119	
C2026	1-101-004-00	CERAMIC	0.01MF 50V	<FILTER>			
C2027	1-124-911-95	ELECT	220MF 20% 50V	FL2001	1-236-129-11	ENCAPSULATED COMPONENT	
C2028	1-101-004-00	CERAMIC	0.01MF 50V	FL2002	1-236-129-11	ENCAPSULATED COMPONENT	
C2029	1-123-875-11	ELECT	10MF 20% 50V	FL2003	1-236-129-11	ENCAPSULATED COMPONENT	
C2030	1-101-880-00	CERAMIC	47PF 5% 50V	FL2004	1-236-129-11	ENCAPSULATED COMPONENT	
C2031	1-101-880-00	CERAMIC	47PF 5% 50V	FL2005	1-236-129-11	ENCAPSULATED COMPONENT	
C2032	1-124-927-11	ELECT	4.7MF 20% 50V	FL2006	1-236-129-11	ENCAPSULATED COMPONENT	
C2037	1-102-978-00	CERAMIC	220PF 5% 50V	FL2007	1-236-129-11	ENCAPSULATED COMPONENT	
C2038	1-124-902-00	ELECT	0.47MF 20% 50V	FL2008	1-236-129-11	ENCAPSULATED COMPONENT	
C2039	1-124-902-00	ELECT	0.47MF 20% 50V	FL2009	1-236-129-11	ENCAPSULATED COMPONENT	
C2040	1-123-875-11	ELECT	10MF 20% 50V	FL2010	1-236-129-11	ENCAPSULATED COMPONENT	
C2041	1-124-122-11	ELECT	100MF 20% 50V	FL2011	1-236-129-11	ENCAPSULATED COMPONENT	
C2101	1-126-233-11	ELECT	22MF 20% 50V	FL2012	1-236-129-11	ENCAPSULATED COMPONENT	
C2102	1-126-103-11	ELECT	470MF 20% 16V	FL2013	1-236-129-11	ENCAPSULATED COMPONENT	
C2104	1-124-910-11	ELECT	47MF 20% 50V	FL2015	1-236-129-11	ENCAPSULATED COMPONENT	
C2106	1-126-233-11	ELECT	22MF 20% 50V	FL2016	1-236-129-11	ENCAPSULATED COMPONENT	
C2108	1-136-165-00	FILM	0.1MF 5% 50V	FL2017	1-236-129-11	ENCAPSULATED COMPONENT	
C2115	1-124-791-11	ELECT	1MF 20% 50V	FL2018	1-236-129-11	ENCAPSULATED COMPONENT	
C2127	1-124-122-11	ELECT	100MF 20% 50V	<IC>			
C2128	1-124-910-11	ELECT	47MF 20% 50V	IC2001	8-752-332-82	IC CXD1050A-09P	
C2202	1-101-005-00	CERAMIC	0.022MF 50V	IC2103	8-759-979-62	IC PCF8574	
C2203	1-101-005-00	CERAMIC	0.022MF 50V	IC2201	8-759-502-25	IC PIP2250	
C2204	1-101-005-00	CERAMIC	0.022MF 50V	*1-540-123-11	SOCKET, IC 68P; IC2201		
C2205	1-126-233-11	ELECT	22MF 20% 50V	IC2202	8-759-502-28	IC CCU2050-D343	
C2207	1-101-004-00	CERAMIC	0.01MF 50V	IC2203	8-759-725-18	IC PVP02204	
				IC2204	8-759-502-26	IC SPU2243	

P

REF.NO. PART NO. DESCRIPTION

IC2205 8-759-502-27 IC DPU2553
 IC2206 8-759-997-99 IC VCU2133-60
 IC2207 8-759-105-98 IC UPD41464C-15
 IC2208 8-759-105-98 IC UPD41464C-15
 IC2209 8-759-720-22 IC MDA2062
 IC2210 8-759-720-22 IC MDA2062
 IC2211 8-759-502-24 IC MCU2600-56
 IC2212 8-759-998-02 IC TEA5114A

<COIL>

L2002 1-408-414-00 INDUCTOR 27UH
 L2100 1-410-116-11 INDUCTOR 0.56MMH
 L2101 1-408-403-00 INDUCTOR 3.3UH
 L2102 1-408-413-00 INDUCTOR 22UH
 L2107 1-408-397-00 INDUCTOR 1UH

<TRANSISTOR>

Q2001 8-729-900-89 TRANSISTOR DTC144ES
 Q2005 8-729-173-38 TRANSISTOR 2SA733-K
 Q2006 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2007 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2008 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2009 8-729-173-38 TRANSISTOR 2SA733-K
 Q2010 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2011 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2012 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2013 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2014 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2015 8-729-173-38 TRANSISTOR 2SA733-K
 Q2016 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2017 8-729-173-38 TRANSISTOR 2SA733-K
 Q2018 8-729-173-38 TRANSISTOR 2SA733-K
 Q2113 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2114 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2125 8-729-900-89 TRANSISTOR DTC144ES
 Q2126 8-729-900-65 TRANSISTOR DTA144ES
 Q2127 8-729-900-89 TRANSISTOR DTC144ES
 Q2201 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2202 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2203 8-729-119-78 TRANSISTOR 2SC2785-HFE
 Q2204 8-729-119-78 TRANSISTOR 2SC2785-HFE

<RESISTOR>

R2002 1-249-413-11 CARBON 470 5% 1/4W
 R2003 1-249-413-11 CARBON 470 5% 1/4W
 R2004 1-249-413-11 CARBON 470 5% 1/4W
 R2005 1-249-419-11 CARBON 1.5K 5% 1/4W
 R2006 1-249-419-11 CARBON 1.5K 5% 1/4W
 R2007 1-249-419-11 CARBON 1.5K 5% 1/4W
 R2010 1-249-411-11 CARBON 330 5% 1/4W
 R2014 1-249-417-11 CARBON 1K 5% 1/4W
 R2015 1-249-437-11 CARBON 47K 5% 1/4W
 R2016 1-249-439-11 CARBON 68K 5% 1/4W
 R2017 1-249-417-11 CARBON 1K 5% 1/4W
 R2018 1-249-405-11 CARBON 100 5% 1/4W
 R2019 1-249-417-11 CARBON 1K 5% 1/4W
 R2020 1-249-433-11 CARBON 22K 5% 1/4W
 R2021 1-249-429-11 CARBON 10K 5% 1/4W
 R2024 1-249-417-11 CARBON 1K 5% 1/4W
 R2025 1-249-433-11 CARBON 22K 5% 1/4W
 R2026 1-249-421-11 CARBON 2.2K 5% 1/4W
 R2027 1-249-433-11 CARBON 22K 5% 1/4W

REMARK

REF.NO. PART NO. DESCRIPTION

REMARK

R2030 1-249-417-11 CARBON 1K 5% 1/4W
 R2031 1-249-437-11 CARBON 47K 5% 1/4W
 R2032 1-249-439-11 CARBON 68K 5% 1/4W
 R2033 1-249-417-11 CARBON 1K 5% 1/4W
 R2034 1-249-405-11 CARBON 100 5% 1/4W
 R2035 1-249-421-11 CARBON 2.2K 5% 1/4W
 R2036 1-249-402-11 CARBON 56 5% 1/4W
 R2037 1-249-402-11 CARBON 56 5% 1/4W
 R2038 1-249-402-11 CARBON 56 5% 1/4W
 R2039 1-249-397-11 CARBON 22 5% 1/4W
 R2040 1-249-397-11 CARBON 22 5% 1/4W
 R2041 1-249-397-11 CARBON 22 5% 1/4W
 R2046 1-249-411-11 CARBON 330 5% 1/4W
 R2047 1-249-439-11 CARBON 68K 5% 1/4W
 R2048 1-249-411-11 CARBON 330 5% 1/4W
 R2049 1-249-439-11 CARBON 68K 5% 1/4W
 R2050 1-249-436-11 CARBON 39K 5% 1/4W
 R2051 1-249-417-11 CARBON 1K 5% 1/4W
 R2052 1-249-436-11 CARBON 39K 5% 1/4W
 R2053 1-249-417-11 CARBON 1K 5% 1/4W
 R2054 1-249-417-11 CARBON 1K 5% 1/4W
 R2055 1-249-417-11 CARBON 1K 5% 1/4W
 R2056 1-249-417-11 CARBON 1K 5% 1/4W
 R2057 1-249-417-11 CARBON 1K 5% 1/4W
 R2058 1-249-405-11 CARBON 100 5% 1/4W
 R2059 1-249-405-11 CARBON 100 5% 1/4W
 R2060 1-249-429-11 CARBON 10K 5% 1/4W
 R2061 1-249-429-11 CARBON 10K 5% 1/4W
 R2063 1-249-405-11 CARBON 100 5% 1/4W
 R2064 1-249-405-11 CARBON 100 5% 1/4W
 R2065 1-249-405-11 CARBON 100 5% 1/4W
 R2066 1-249-405-11 CARBON 100 5% 1/4W
 R2067 1-249-405-11 CARBON 100 5% 1/4W
 R2068 1-249-405-11 CARBON 100 5% 1/4W
 R2072 1-249-405-11 CARBON 100 5% 1/4W
 R2073 1-249-413-11 CARBON 470 5% 1/4W
 R2074 1-249-413-11 CARBON 470 5% 1/4W
 R2075 1-249-405-11 CARBON 100 5% 1/4W
 R2076 1-249-433-11 CARBON 22K 5% 1/4W
 R2077 1-249-433-11 CARBON 22K 5% 1/4W
 R2078 1-249-417-11 CARBON 1K 5% 1/4W
 R2079 1-249-414-11 CARBON 560 5% 1/4W
 R2080 1-249-413-11 CARBON 470 5% 1/4W
 R2081 1-249-425-11 CARBON 4.7K 5% 1/4W
 R2082 1-249-417-11 CARBON 1K 5% 1/4W
 R2083 1-249-413-11 CARBON 470 5% 1/4W
 R2085 1-249-434-11 CARBON 27K 5% 1/4W
 R2086 1-249-440-11 CARBON 82K 5% 1/4W
 R2087 1-249-411-11 CARBON 330 5% 1/4W
 R2089 1-249-434-11 CARBON 27K 5% 1/4W
 R2090 1-249-440-11 CARBON 82K 5% 1/4W
 R2091 1-249-411-11 CARBON 330 5% 1/4W
 R2092 1-249-425-11 CARBON 4.7K 5% 1/4W
 R2093 1-249-425-11 CARBON 4.7K 5% 1/4W
 R2094 1-249-424-11 CARBON 3.9K 5% 1/4W
 R2095 1-249-424-11 CARBON 3.9K 5% 1/4W
 R2105 1-249-432-11 CARBON 18K 5% 1/4W
 R2107 1-249-433-11 CARBON 22K 5% 1/4W
 R2108 1-249-432-11 CARBON 18K 5% 1/4W
 R2110 1-249-429-11 CARBON 10K 5% 1/4W
 R2111 1-249-422-11 CARBON 2.7K 5% 1/4W
 R2116 1-249-404-00 CARBON 82 5% 1/4W
 R2118 1-249-435-11 CARBON 33K 5% 1/4W

P

F1

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KV-D3431D
RM-811

F1

F2

A

SIF

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<THERMISTOR>				Q114	8-729-271-22	TRANSISTOR 2SC2712-G	
TNP651	Δ 1-808-059-31	THERMISTOR, POSITIVE		Q115	8-729-271-22	TRANSISTOR 2SC2712-G	
*****				Q116	8-729-271-22	TRANSISTOR 2SC2712-G	
	*1-636-574-11	F2 BOARD		Q125	8-729-900-89	TRANSISTOR DTC144ES	
		*****		Q126	8-729-901-06	TRANSISTOR DTA144EK	
	*1-566-664-11	PIN, CONNECTOR 4P		Q181	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<FUSE>				<RESISTOR>			
F451	Δ 1-532-350-11	FUSE, TIME-LAG 4A/250V		JR252	1-216-296-00	METAL GLAZE 0 5% 1/8W	
	1-533-230-11	HOLDER, FUSE; F451		JR253	1-216-296-00	METAL GLAZE 0 5% 1/8W	
<SWITCH>				JR255	1-216-296-00	METAL GLAZE 0 5% 1/8W	
S451	Δ 1-571-433-11	SWITCH, PUSH (AC POWER)		JR256	1-216-296-00	METAL GLAZE 0 5% 1/8W	
*****				JR257	1-216-296-00	METAL GLAZE 0 5% 1/8W	
	*A-1632-015-A	A BOARD, COMPLETE		JR258	1-216-296-00	METAL GLAZE 0 5% 1/8W	
		*****		R101	1-216-025-00	METAL GLAZE 100 5% 1/10W	
	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		R105	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
	*1-564-881-11	PLUG, CONNECTOR 4P		R107	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
	*1-564-886-21	PLUG, CONNECTOR 9P		R108	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
	*1-565-393-11	CONNECTOR, BOARD TO BOARD		R110	1-249-429-11	CARBON 10K 5% 1/4W	
	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P		R111	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
<CAPACITOR>				R116	1-216-023-00	METAL GLAZE 82 5% 1/10W	
C101	1-126-233-11	ELECT 22MF 20% 50V		R118	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
C102	1-126-103-11	ELECT 470MF 20% 16V		R128	1-216-027-00	METAL GLAZE 120 5% 1/10W	
C104	1-124-910-11	ELECT 47MF 20% 50V		R129	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C106	1-126-233-11	ELECT 22MF 20% 50V		R130	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C108	1-136-165-00	FILM 0.1MF 5% 50V		R157	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C109	1-163-133-00	CERAMIC CHIP 470PF 5% 50V		R158	1-249-405-11	CARBON 100 5% 1/4W	
C111	1-124-925-11	ELECT 2.2MF 20% 50V		R159	1-249-405-11	CARBON 100 5% 1/4W	
C115	1-124-925-11	ELECT 2.2MF 20% 50V		R161	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
C127	1-124-122-11	ELECT 100MF 20% 50V		R162	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
C128	1-124-910-11	ELECT 47MF 20% 50V		R163	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
C129	1-124-910-11	ELECT 47MF 20% 50V		R164	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
C138	1-136-165-00	FILM 0.1MF 5% 50V		R165	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
C171	1-163-005-11	CERAMIC CHIP 470PF 10% 50V		R167	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
C172	1-163-005-11	CERAMIC CHIP 470PF 10% 50V		R168	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
C177	1-102-074-00	CERAMIC 0.001MF 10% 50V		R169	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
C181	1-101-004-00	CERAMIC 0.01MF 50V		R181	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
<IC>				R182	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
IC103	8-759-979-62	IC PCF8574		R193	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
<COIL>				R194	1-216-017-00	METAL GLAZE 47 5% 1/10W	
L100	1-410-116-11	INDUCTOR 0.56MMH		R195	1-216-017-00	METAL GLAZE 47 5% 1/10W	
L101	1-408-225-00	INDUCTOR 3.3UH		R196	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
L102	1-408-413-00	INDUCTOR 22UH		<TUNER>			
L107	1-408-397-00	INDUCTOR 1UH		TU101	Δ 1-465-301-11	TUNER, ET (UV-816(PLL))	
<TRANSISTOR>				<IF BLOCK>			
Q113	8-729-271-22	TRANSISTOR 2SC2712-G		VIF101	1-466-154-21	IF BLOCK (IFG-389S)	
*****				*****			
					1-464-964-21	SIF BOARD (IF BLOCK IFG-5.5S)	

					*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P	
<CAPACITOR>				<CAPACITOR>			
C1	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C1	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C2	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C2	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C3	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C3	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C4	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C4	1-164-232-11	CERAMIC CHIP 0.01MF	50V

SIF

C

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C5	1-164-232-11	CERAMIC CHIP 0.01MF	50V	JC4	1-216-296-00	METAL GLAZE 0	5% 1/8W
C6	1-164-232-11	CERAMIC CHIP 0.01MF	50V	JC5	1-216-296-00	METAL GLAZE 0	5% 1/8W
C7	1-124-791-11	ELECT 1MF	20% 50V	R1	1-216-045-00	METAL GLAZE 680	5% 1/10W
C8	1-123-875-11	ELECT 10MF	20% 50V	R2	1-216-043-00	METAL GLAZE 560	5% 1/10W
C9	1-130-471-00	MYLAR 0.001MF	5% 50V	R3	1-216-043-00	METAL GLAZE 560	5% 1/10W
C10	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	R5	1-216-045-00	METAL GLAZE 680	5% 1/10W
C11	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	R6	1-216-043-00	METAL GLAZE 560	5% 1/10W
C12	1-136-298-00	FILM 0.0033MF	2% 100V	R7	1-216-043-00	METAL GLAZE 560	5% 1/10W
C13	1-124-477-11	ELECT 47MF	20% 16V	R9	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C14	1-124-477-11	ELECT 47MF	20% 16V	R10	1-216-077-00	METAL GLAZE 15K	5% 1/10W
C15	1-124-477-11	ELECT 47MF	20% 16V	R11	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C16	1-124-477-11	ELECT 47MF	20% 16V	R12	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C17	1-123-875-11	ELECT 10MF	20% 50V	R15	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
C18	1-106-367-00	MYLAR 0.01MF	10% 400V	R16	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C19	1-106-367-00	MYLAR 0.01MF	10% 400V	R17	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C20	1-126-233-11	ELECT 22MF	20% 50V	R18	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
C21	1-126-233-11	ELECT 22MF	20% 50V	R19	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C22	1-106-220-00	MYLAR 0.1MF	10% 100V	R20	1-216-075-00	METAL GLAZE 12K	5% 1/10W
C23	1-106-228-00	MYLAR 0.22MF	10% 100V	R22	1-216-099-00	METAL GLAZE 120K	5% 1/10W
C24	1-124-963-11	ELECT 33MF	20% 16V	R24	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C25	1-106-375-12	MYLAR 0.022MF	10% 250V	R25	1-216-077-00	METAL GLAZE 15K	5% 1/10W
C26	1-106-383-00	MYLAR 0.047MF	10% 100V	<VARIABLE RESISTOR>			
C27	1-124-791-11	ELECT 1MF	20% 50V	RV1	1-238-547-11	RES, ADJ, CARBON 10K	
C28	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	RV2	1-238-549-11	RES, ADJ, CARBON 47K	
C29	1-124-791-11	ELECT 1MF	20% 50V	<FILTER>			
C30	1-124-791-11	ELECT 1MF	20% 50V	SFT1	1-527-840-00	FILTER, CERAMIC	
C31	1-106-367-00	MYLAR 0.01MF	10% 400V	SFT2	1-527-839-00	FILTER, CERAMIC	
C32	1-130-479-00	MYLAR 0.0047MF	5% 50V	*****			
C33	1-163-081-00	CERAMIC CHIP 0.22MF	25V	*A-1638-010-A C BOARD, COMPLETE			
C34	1-106-228-00	MYLAR 0.22MF	10% 100V	*****			
C35	1-123-875-11	ELECT 10MF	20% 50V	1-506-348-99 PIN, CONNECTOR 3P			
C36	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P			
C37	1-124-477-11	ELECT 47MF	20% 16V	*1-564-506-11 PLUG, CONNECTOR 3P			
C38	1-124-477-11	ELECT 47MF	20% 16V	*1-564-509-11 PLUG, CONNECTOR 6P			
<DIODE>				*4-379-160-01 COVER (REAR LID), CV			
D3	8-719-400-18	DIODE MA152WK		*4-379-167-01 COVER (MAIN), CV			
<IC>				<CAPACITOR>			
IC1	8-759-003-90	IC TBA129		C703	1-102-822-00	CERAMIC 390PF	5% 50V
IC2	8-759-003-90	IC TBA129		C704	1-102-116-00	CERAMIC 680PF	10% 50V
IC3	8-759-030-48	IC TDA6600-2		C705	1-102-980-00	CERAMIC 270PF	5% 50V
IC4	8-759-946-99	IC TDA2595-V7		C706	1-102-116-00	CERAMIC 680PF	10% 50V
<COIL>				C707	1-162-116-00	CERAMIC 680PF	10% 2KV
L1	1-408-410-00	INDUCTOR 12UH		C708	1-162-114-00	CERAMIC 0.0047MF	2KV
L2	1-408-410-00	INDUCTOR 12UH		C709	1-102-116-00	CERAMIC 680PF	10% 50V
L3	1-410-064-11	INDUCTOR 2.7MMH		C710	1-123-948-00	ELECT 22MF	20% 250V
L4	1-408-421-00	INDUCTOR 100UH		C711	1-101-880-00	CERAMIC 47PF	5% 50V
L5	1-408-421-00	INDUCTOR 100UH		C712	1-102-820-00	CERAMIC 330PF	5% 50V
<TRANSISTOR>				C714	1-126-103-11	ELECT 470MF	20% 16V
Q2	8-729-901-00	TRANSISTOR DTC124EK		C716	1-162-622-11	CERAMIC 330PF	10% 400V
Q3	8-729-920-71	TRANSISTOR 2SA1037K-QR		C717	1-102-114-00	CERAMIC 470PF	10% 50V
Q4	8-729-901-00	TRANSISTOR DTC124EK		C718	1-102-114-00	CERAMIC 470PF	10% 50V
<RESISTOR>				C719	1-102-114-00	CERAMIC 470PF	10% 50V
JC1	1-216-296-00	METAL GLAZE 0	5% 1/8W	C721	1-123-875-11	ELECT 10MF	20% 50V
JC2	1-216-296-00	METAL GLAZE 0	5% 1/8W				
JC3	1-216-296-00	METAL GLAZE 0	5% 1/8W				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>							
D701	8-719-911-19	DIODE 1SS119		R732	1-249-415-11	CARBON 680 5% 1/4W	
D702	8-719-911-19	DIODE 1SS119		R733	1-249-415-11	CARBON 680 5% 1/4W	
D703	8-719-911-19	DIODE 1SS119		R734	1-249-405-11	CARBON 100 5% 1/4W	
D704	8-719-911-19	DIODE 1SS119		R735	1-214-915-00	METAL 120K 1% W	
D705	8-719-911-19	DIODE 1SS119		R736	1-216-486-00	METAL OXIDE 8.2K 5% 3W F	
D706	8-719-911-19	DIODE 1SS119		R737	1-214-913-00	METAL 100K 1% W	
D707	8-719-911-19	DIODE 1SS119		R738	1-202-549-00	SOLID 100 10% 1/2W	
D708	8-719-911-19	DIODE 1SS119		R739	1-249-417-11	CARBON 1K 5% 1/4W	
D709	8-719-911-19	DIODE 1SS119		R740	1-202-846-00	SOLID 470K 10% 1/2W	
D710	8-719-911-19	DIODE 1SS119		R741	1-202-837-00	SOLID 82K 10% 1/2W	
D711	8-719-300-33	DIODE RU-3AM		<VARIABLE RESISTOR>			
D713	8-719-110-14	DIODE RD9.1ES-B3		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
<JACK>				RV702	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
J701	1-526-798-51	SOCKET, PICTURE TUBE		RV703	1-228-991-00	RES, ADJ, CARBON 2.2K	
<COIL>				RV704	1-228-991-00	RES, ADJ, CARBON 2.2K	
L704	1-410-878-11	INDUCTOR 33UH		*****			
<TRANSISTOR>				*A-1642-025-A	D BOARD, COMPLETE		
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		*****			
Q703	8-729-326-11	TRANSISTOR 2SC2611		*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		
*4-386-664-01	SPRING; Q703			*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		
Q704	8-729-200-17	TRANSISTOR 2SA1091-0		*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		
Q706	8-729-326-11	TRANSISTOR 2SC2611		*1-559-991-41	CONNECTOR ASSY 1P		
*4-386-664-01	SPRING; Q706			*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		*1-564-104-00	PIN, CONNECTOR 3P		
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-564-506-11	PLUG, CONNECTOR 3P		
Q709	8-729-326-11	TRANSISTOR 2SC2611		*1-564-507-11	PLUG, CONNECTOR 4P		
*4-386-664-01	SPRING; Q709			*1-564-515-11	PLUG, CONNECTOR 12P		
Q710	8-729-200-17	TRANSISTOR 2SA1091-0		*1-568-536-11	PLUG (MINIATURE DY) 6P		
<RESISTOR>				*4-341-751-01	EYELET (EY5,EY6,EY7,EY8,EY9,EY10,EY14,EY15,EY16,EY17,EY26,EY27,EY28,EY29,EY30)		
R704	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY12,EY13,EY20,EY21,EY23,EY24)		
R705	1-202-824-00	SOLID 3.3K 10% 1/2W		<CAPACITOR>			
R706	1-249-409-11	CARBON 220 5% 1/4W		C501	1-124-927-11	ELECT 4.7MF 20% 50V	
R707	1-249-411-11	CARBON 330 5% 1/4W		C502	1-124-927-11	ELECT 4.7MF 20% 50V	
R708	1-249-397-11	CARBON 22 5% 1/4W		C503	1-106-371-00	MYLAR 0.015MF 10% 400V	
R709	1-202-844-00	SOLID 330K 10% 1/2W		C504	1-101-361-00	CERAMIC 150PF 5% 50V	
R710	1-214-897-00	METAL 22K 1% W		C505	1-130-473-00	MYLAR 0.0015MF 5% 50V	
R712	1-249-417-11	CARBON 1K 5% 1/4W		C506	1-106-375-12	MYLAR 0.022MF 10% 250V	
R713	1-214-905-00	METAL 47K 1% W		C508	1-106-375-12	MYLAR 0.022MF 10% 250V	
R714	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		C509	1-106-220-00	MYLAR 0.1MF 10% 100V	
R715	1-202-824-00	SOLID 3.3K 10% 1/2W		C510	1-161-959-00	CERAMIC 22PF 10% 500V	
R716	1-249-409-11	CARBON 220 5% 1/4W		C511	1-108-686-11	MYLAR 0.0033MF 10% 100V	
R717	1-249-415-11	CARBON 680 5% 1/4W		C513	1-108-680-11	MYLAR 0.001MF 10% 100V	
R718	1-202-814-11	SOLID 33K 10% 1/2W		C514	1-106-228-00	MYLAR 0.22MF 10% 100V	
R720	1-249-423-11	CARBON 3.3K 5% 1/4W		C515	1-124-791-11	ELECT 1MF 20% 50V	
R721	1-202-842-11	SOLID 220K 10% 1/2W		C516	1-102-112-00	CERAMIC 330PF 10% 50V	
R722	1-202-848-00	SOLID 680K 10% 1/2W		C518	1-124-902-00	ELECT 0.47MF 20% 50V	
R723	1-249-417-11	CARBON 1K 5% 1/4W		C519	1-136-173-00	FILM 0.47MF 5% 50V	
R724	1-202-846-00	SOLID 470K 10% 1/2W		C520	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
R725	1-202-838-00	SOLID 100K 10% 1/2W		C521	1-106-220-00	MYLAR 0.1MF 10% 100V	
R726	1-202-824-00	SOLID 3.3K 10% 1/2W		C522	1-126-105-11	ELECT 1000MF 20% 35V	
R727	1-249-409-11	CARBON 220 5% 1/4W		C523	1-108-680-11	MYLAR 0.001MF 10% 100V	
R728	1-216-350-11	METAL OXIDE 1.2 5% 1W F		C524	1-108-686-11	MYLAR 0.0033MF 10% 100V	
R729	1-249-416-11	CARBON 820 5% 1/4W		C525	1-102-973-00	CERAMIC 100PF 5% 50V	
R731	1-249-423-11	CARBON 3.3K 5% 1/4W		C527	1-106-220-00	MYLAR 0.1MF 10% 100V	
				C531	1-126-104-11	ELECT 470MF 20% 25V	
				C532	1-124-122-11	ELECT 100MF 20% 50V	

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C533	1-106-216-00	MYLAR	0.068MF 10%	100V	C1711	1-124-925-11	ELECT 2.2MF 20% 50V
C534	1-124-120-11	ELECT	220MF 20%	25V	C1712	1-124-927-11	ELECT 4.7MF 20% 50V
C536	1-131-365-00	TANTALUM	10MF 10%	16V	C1713	1-124-910-11	ELECT 47MF 20% 50V
C537	1-124-791-11	ELECT	1MF 20%	50V	C1714	1-124-911-95	ELECT 220MF 20% 50V
C538	1-108-680-11	MYLAR	0.001MF 10%	100V	C1715	1-124-910-11	ELECT 47MF 20% 50V
C539	1-102-820-00	CERAMIC	330PF 5%	50V	C1716	1-106-228-00	MYLAR 0.22MF 10% 100V
C541	1-124-902-00	ELECT	0.47MF 20%	50V	C1717	1-124-120-11	ELECT 220MF 20% 25V
C550	1-101-004-00	CERAMIC	0.01MF	50V	C1718	1-136-165-00	FILM 0.1MF 5% 50V
C578	1-124-927-11	ELECT	4.7MF 20%	50V	C1719	1-124-927-11	ELECT 4.7MF 20% 50V
C593	1-102-820-00	CERAMIC	330PF 5%	50V	C1720	1-124-927-11	ELECT 4.7MF 20% 50V
C596	1-106-220-00	MYLAR	0.1MF 10%	100V	C1721	1-123-875-11	ELECT 10MF 20% 50V
C597	1-102-951-00	CERAMIC	15PF 10%	50V	C1722	1-124-927-11	ELECT 4.7MF 20% 50V
C801	1-126-105-11	ELECT	1000MF 20%	35V	C1723	1-123-875-11	ELECT 10MF 20% 50V
C802	1-102-228-00	CERAMIC	470PF 10%	500V	C1724	1-126-233-11	ELECT 22MF 20% 50V
C804	1-123-948-00	ELECT	22MF 20%	250V	C1725	1-124-360-00	ELECT 1000MF 20% 16V
C805 Δ	1-162-114-51	CERAMIC	0.0047MF	2KV	C1726	1-124-910-11	ELECT 47MF 20% 50V
C806	1-106-387-00	MYLAR	0.068MF 10%	200V	C1727	1-124-910-11	ELECT 47MF 20% 50V
C807	1-106-395-00	MYLAR	0.15MF 10%	200V	C1734	1-124-360-00	ELECT 1000MF 20% 16V
C810	1-123-024-21	ELECT	33MF	160V	C1735	1-106-379-12	MYLAR 0.033MF 10% 250V
C811	1-136-541-11	FILM	1.5MF 5%	200V	C1736	1-124-791-11	ELECT 1MF 20% 50V
C812	1-123-946-00	ELECT	4.7MF 20%	250V	C1740	1-102-244-00	CERAMIC 220PF 10% 500V
C813	1-102-212-00	CERAMIC	820PF 10%	500V	C5502	1-124-119-00	ELECT 330MF 20% 16V
C814 Δ	1-161-731-11	CERAMIC	0.001MF 10%	2KV	C5505	1-124-463-00	ELECT 0.1MF 20% 50V
C815	1-136-597-11	FILM	0.89MF 5%	200V			
C817	1-136-686-11	FILM	0.018MF 3%	1.4KV			
C818	1-136-759-11	FILM	0.039MF 5%	630V			
C819 Δ	1-162-116-51	CERAMIC	680PF 10%	2KV			
C820 Δ	1-110-189-81	MYLAR	0.0082MF 10%	400V			
C821 Δ	1-162-116-51	CERAMIC	680PF 10%	2KV			
C822	1-102-114-00	CERAMIC	470PF 10%	50V			
C823	1-106-359-00	MYLAR	0.0047MF 10%	400V			
C824	1-102-212-00	CERAMIC	820PF 10%	500V			
C828	1-106-383-00	MYLAR	0.047MF 10%	100V			
C829	1-110-184-91	MYLAR	0.033MF 20%	250V			
C849	1-102-112-00	CERAMIC	330PF 10%	50V			
C850	1-101-821-00	CERAMIC	0.0022MF	500V			
C851	1-126-105-11	ELECT	1000MF 20%	35V			
C852	1-102-002-00	CERAMIC	680PF 10%	500V			
C854	1-124-122-11	ELECT	100MF 20%	50V			
C855	1-124-791-11	ELECT	1MF 20%	50V			
C860	1-106-399-00	MYLAR	0.22MF 10%	200V			
C861 Δ	1-161-731-11	CERAMIC	0.001MF 10%	2KV			
C1501	1-124-925-11	ELECT	2.2MF 20%	50V			
C1502	1-123-875-11	ELECT	10MF 20%	50V			
C1503	1-108-680-11	MYLAR	0.001MF 10%	100V			
C1504	1-124-910-11	ELECT	47MF 20%	50V			
C1505	1-106-383-00	MYLAR	0.047MF 10%	100V			
C1507	1-108-686-11	MYLAR	0.0033MF 10%	100V			
C1508	1-123-875-11	ELECT	10MF 20%	50V			
C1509	1-124-791-11	ELECT	1MF 20%	50V			
C1511	1-123-875-11	ELECT	10MF 20%	50V			
C1512	1-106-367-00	MYLAR	0.01MF 10%	100V			
C1513	1-102-963-00	CERAMIC	33PF 5%	50V			
C1520	1-102-108-00	CERAMIC	150PF 10%	50V			
C1551	1-124-902-00	ELECT	0.47MF 20%	50V			
C1552	1-124-122-11	ELECT	100MF 20%	50V			
C1553	1-102-228-00	CERAMIC	470PF 10%	500V			
C1638	1-106-228-00	MYLAR	0.22MF 10%	100V			
C1639	1-101-006-00	CERAMIC	0.047MF	50V			
C1640	1-101-006-00	CERAMIC	0.047MF	50V			
C1651	1-106-220-00	MYLAR	0.1MF 10%	100V			
C1654	1-106-220-00	MYLAR	0.1MF 10%	100V			
C1655	1-106-220-00	MYLAR	0.1MF 10%	100V			
C1656	1-124-902-00	ELECT	0.47MF 20%	50V			
C1657	1-106-383-00	MYLAR	0.047MF 10%	100V			
C1707	1-106-363-00	MYLAR	0.0068MF 10%	400V			
C1708	1-106-359-00	MYLAR	0.0047MF 10%	400V			
C1710	1-106-224-00	MYLAR	0.15MF 10%	100V			
<FILTER>							
CF501	1-567-888-11	OSCILLATOR, CERAMIC					
<DIODE>							
D502	8-719-200-02	DIODE 10E2					
D504	8-719-911-55	DIODE U05G					
D506	8-719-016-42	DIODE MC932					
D508	8-719-911-19	DIODE 1SS119					
D511	8-719-911-55	DIODE U05G					
D512	8-719-911-55	DIODE U05G					
D513	8-719-109-81	DIODE RD4.7ES-B2					
D801	8-719-300-33	DIODE RU-3AM					
D802	8-719-300-33	DIODE RU-3AM					
D803	8-719-901-19	DIODE V11N					
D804	8-719-911-55	DIODE U05G					
D805	8-719-911-55	DIODE U05G					
D806	8-719-945-80	DIODE ERC06-15S					
D807	8-719-945-80	DIODE ERC06-15S					
D808	8-719-900-26	DIODE ERD29-08J					
D809	8-719-911-19	DIODE 1SS119					
D850	8-719-979-85	DIODE EGP20G					
D1501	8-719-300-33	DIODE RU-3AM					
D1502	8-719-911-19	DIODE 1SS119					
D1503	8-719-911-19	DIODE 1SS119					
D1504	8-719-911-19	DIODE 1SS119					
D1505	8-719-016-42	DIODE MC932					
D1515	8-719-911-19	DIODE 1SS119					
D1552	8-719-300-33	DIODE RU-3AM					
D1652	8-719-200-02	DIODE 10E2					
D1701	8-719-979-85	DIODE EGP20G					
D1702	8-719-980-78	DIODE ERA83-006					
D1703	8-719-980-78	DIODE ERA83-006					
D1704	8-719-911-19	DIODE 1SS119					
D1705	8-719-911-19	DIODE 1SS119					
D1707	8-719-300-33	DIODE RU-3AM					
D1708	8-719-109-81	DIODE RD4.7ES-B2					
D1709	8-719-109-89	DIODE RD5.6ES-B2					

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KV-D3431D
RM-811

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D1710	8-719-109-89	DIODE RD5.6ES-B2		Q1704	8-729-140-96	TRANSISTOR 2SD774-34	
<IC>				Q1705	8-729-140-96	TRANSISTOR 2SD774-34	
IC501	8-759-970-73	IC TEA2028B		Q1706	8-729-173-38	TRANSISTOR 2SA733-K	
IC502	8-759-944-57	IC TDA8170		Q1707	8-729-809-29	TRANSISTOR 2SC4159-E	
IC503	8-749-920-60	IC STR90120		Q1708	8-729-140-97	TRANSISTOR 2SB734-34	
IC1501	8-759-942-16	IC TEA2031A		Q1709	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC1701	8-759-103-93	IC UPC393C		Q1710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC1702	8-759-112-93	IC UPC4570HA-1		Q1711	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC1704	8-759-982-13	IC RC7812FA		Q1712	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	*4-363-147-00	HEAT SINK, H.PIN; IC1704		Q1716	8-729-900-80	TRANSISTOR DTC114ES	
<COIL>				Q1717	8-729-173-38	TRANSISTOR 2SA733-K	
L501	1-408-225-00	INDUCTOR 3.3UH		<RESISTOR>			
L801	1-459-111-00	COIL, DRAM CORE (CDI)		R500	1-247-897-11	CARBON 560K 5% 1/4W	
L803	1-459-104-00	COIL, DUST CORE		R501	1-247-708-11	CARBON 470 5% 1/4W	
L804	1-408-235-00	INDUCTOR 2.2MMH		R502	1-249-409-11	CARBON 220 5% 1/4W	
L806	1-459-111-00	COIL, DRAM CORE (CDI)		R503	1-249-410-11	CARBON 270 5% 1/4W	
L807	1-408-938-00	INDUCTOR 22UH		R504	1-214-870-00	METAL 1.8K 1% W	
L809	*1-420-872-00	COIL, AIR CORE		R509	1-249-424-11	CARBON 3.9K 5% 1/4W	
L811	1-459-104-00	COIL, DUST CORE		R510	1-249-426-11	CARBON 5.6K 5% 1/4W	
L812	1-408-698-00	INDUCTOR 8.2UH		R511	1-247-719-11	CARBON 3.3K 5% 1/4W	
L850	1-408-225-00	INDUCTOR 3.3UH		R513A	1-249-461-11	CARBON 18K 5% 1/4W	
L1651	1-443-012-00	TRANSFORMER, DYNAMIC CONVERSION		R514	1-249-409-11	CARBON 220 5% 1/4W	
L1652	1-459-583-11	COIL (WITH CORE)		R515	1-249-423-11	CARBON 3.3K 5% 1/4W	
L1653	1-408-247-00	INDUCTOR 33MMH		R516	1-249-408-11	CARBON 180 5% 1/4W	
L1654	1-408-421-00	INDUCTOR 100UH		R517	1-247-725-11	CARBON 10K 5% 1/4W	
L1702	1-410-093-11	INDUCTOR 33MMH		R518	1-249-434-11	CARBON 27K 5% 1/4W	
L1703	1-459-592-11	COIL (WITH CORE) (PMC)		R519	1-249-429-11	CARBON 10K 5% 1/4W	
L1704	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		R520	1-249-411-11	CARBON 330 5% 1/4W	
L1705	1-408-235-00	INDUCTOR 2.2MMH		R521	1-247-700-11	CARBON 100 5% 1/4W	
<NEON LAMP>				R522	1-247-903-00	CARBON 1M 5% 1/4W	
NL801	1-519-108-99	LAMP, NEON		R523	1-249-393-11	CARBON 10 5% 1/4W	
<IC LINK>				R524	1-249-421-11	CARBON 2.2K 5% 1/4W	
PS1659A	1-532-727-91	LINK, IC 0.25A		R525	1-249-417-11	CARBON 1K 5% 1/4W	
<TRANSISTOR>				R526	1-212-889-00	FUSIBLE 220 5% 1/4W F	
Q501	8-729-173-38	TRANSISTOR 2SA733-K		R527	1-249-460-11	CARBON 15K 5% 1/4W	
Q502	8-729-173-38	TRANSISTOR 2SA733-K		R530	1-217-376-00	FUSIBLE 1.2 5% 1/4W F	
Q505	8-729-140-96	TRANSISTOR 2SD774-34		R531	1-247-881-00	CARBON 120K 5% 1/4W	
Q506	8-729-140-97	TRANSISTOR 2SB734-34		R532	1-247-713-11	CARBON 1K 5% 1/4W	
Q507	8-729-173-38	TRANSISTOR 2SA733-K		R533	1-249-393-11	CARBON 10 5% 1/4W	
Q509	8-729-900-80	TRANSISTOR DTC114ES		R534	1-246-543-00	CARBON 820K 5% 1/4W	
Q510	8-729-900-80	TRANSISTOR DTC114ES		R536	1-247-725-11	CARBON 10K 5% 1/4W	
Q591	8-729-119-78	TRANSISTOR 2SC2785-HFE		R537	1-249-463-11	CARBON 27K 5% 1/4W	
Q592	8-729-900-80	TRANSISTOR DTC114ES		R538	1-249-441-11	CARBON 100K 5% 1/4W	
Q804	8-729-305-01	TRANSISTOR 2SD1941-07		R539	1-247-883-00	CARBON 150K 5% 1/4W	
	*4-378-214-01	HOLDER, TR; Q804		R540	1-249-434-11	CARBON 27K 5% 1/4W	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK		R541	1-249-438-11	CARBON 56K 5% 1/4W	
Q806	8-729-122-12	TRANSISTOR 2SA1221-L		R542	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q807	8-729-107-53	TRANSISTOR 2SC2275A-P		R543	1-217-376-00	FUSIBLE 1.2 5% 1/4W F	
Q1551	8-729-119-78	TRANSISTOR 2SC2785-HFE		R544	1-247-745-11	CARBON 330 5% 1/2W	
Q1552	8-729-208-71	TRANSISTOR 2SC3298B-0		R545	1-247-725-11	CARBON 10K 5% 1/4W	
Q1608	8-729-119-78	TRANSISTOR 2SC2785-HFE		R546	1-249-434-11	CARBON 27K 5% 1/4W	
Q1653	8-729-195-82	TRANSISTOR 2SC2958-L		R547	1-249-423-11	CARBON 3.3K 5% 1/4W	
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE		R548	1-216-349-00	METAL OXIDE 1 5% 1W F	
Q1703	8-729-208-71	TRANSISTOR 2SC3298B-0		R549	1-215-890-11	METAL OXIDE 470 5% 2W F	
				R550	1-249-440-11	CARBON 82K 5% 1/4W	
				R551	1-249-752-11	CARBON 3.9M 5% 1/4W	
				R553	1-215-869-11	METAL OXIDE 1K 5% 1W	
				R554	1-249-411-11	CARBON 330 5% 1/4W	
				R555	1-249-749-00	CARBON 2.2M 5% 1/4W	
				R556	1-249-405-11	CARBON 100 5% 1/4W	
				R557	1-249-425-11	CARBON 4.7K 5% 1/4W	
				R558	1-247-903-00	CARBON 1M 5% 1/4W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R559	1-249-427-11	CARBON	6.8K 5% 1/4W	R1656	1-249-415-11	CARBON	680 5% 1/4W
R560	1-249-411-11	CARBON	330 5% 1/4W	R1657	1-249-411-11	CARBON	330 5% 1/4W
R575	1-249-435-11	CARBON	33K 5% 1/4W	R1658	1-249-411-11	CARBON	330 5% 1/4W F
R585	1-249-422-11	CARBON	2.7K 5% 1/4W	R1660	1-215-911-11	METAL OXIDE	100 5% 3W F
R595	1-249-417-11	CARBON	1K 5% 1/4W	R1720	1-249-421-11	CARBON	2.2K 5% 1/4W
R596	1-249-415-11	CARBON	680 5% 1/4W	R1721	1-249-429-11	CARBON	10K 5% 1/4W
R802	1-249-474-11	CARBON	1 5% 1/2W F	R1722	1-249-421-11	CARBON	2.2K 5% 1/4W
R805	1-249-474-11	CARBON	1 5% 1/2W F	R1723	1-249-427-11	CARBON	6.8K 5% 1/4W
R806	1-249-467-11	CARBON	68K 5% 1/4W	R1724	1-249-429-11	CARBON	10K 5% 1/4W
R807	1-215-869-11	METAL OXIDE	1K 5% 1W	R1725	1-249-429-11	CARBON	10K 5% 1/4W
R809	1-247-756-11	CARBON	2.2K 5% 1/2W	R1726	1-249-441-11	CARBON	100K 5% 1/4W
R815	1-212-972-00	FUSIBLE	39 5% 1/2W F	R1728	1-215-890-11	METAL OXIDE	470 5% 2W F
R816	1-215-868-00	METAL OXIDE	680 5% 1W	R1729	1-216-449-11	METAL OXIDE	56 5% 2W
R817	1-249-417-11	CARBON	1K 5% 1/4W	R1730	1-249-441-11	CARBON	100K 5% 1/4W
R820	1-249-403-11	CARBON	68 5% 1/4W	R1731	1-215-869-11	METAL OXIDE	1K 5% 1W
R821	1-217-826-11	FUSIBLE	10K 5% 1/4W	R1733	1-249-414-11	CARBON	560 5% 1/4W
R822	1-217-778-11	FUSIBLE	1K 5% 1W F	R1734	1-249-393-11	CARBON	10 5% 1/4W
R825	1-216-341-11	METAL OXIDE	0.22 5% 1W F	R1735	1-249-428-11	CARBON	8.2K 5% 1/4W
R831	1-217-811-11	FUSIBLE	0.47 5% 1/4W F	R1736	1-247-895-00	CARBON	470K 5% 1/4W
R832	1-212-865-00	FUSIBLE	22 5% 1/4W	R1737	1-249-429-11	CARBON	10K 5% 1/4W
R833	1-216-379-11	METAL OXIDE	6.8 5% 2W F	R1738	1-249-421-11	CARBON	2.2K 5% 1/4W
R834	1-249-482-11	CARBON	4.7 5% 1/2W F	R1739	1-249-429-11	CARBON	10K 5% 1/4W
R835	1-215-884-11	METAL OXIDE	47 5% 2W	R1740	1-249-435-11	CARBON	33K 5% 1/4W
R836	1-215-884-11	METAL OXIDE	47 5% 2W	R1741	1-249-429-11	CARBON	10K 5% 1/4W
R837	1-215-911-11	METAL OXIDE	100 5% 3W F	R1742	1-249-432-11	CARBON	18K 5% 1/4W
R839	1-249-429-11	CARBON	10K 5% 1/4W	R1743	1-247-895-00	CARBON	470K 5% 1/4W
R840	1-249-496-11	CARBON	100K 5% 1/2W	R1744	1-249-429-11	CARBON	10K 5% 1/4W
R841	1-247-713-11	CARBON	1K 5% 1/4W	R1745	1-249-415-11	CARBON	680 5% 1/4W
R842	1-247-713-11	CARBON	1K 5% 1/4W	R1746	1-249-424-11	CARBON	3.9K 5% 1/4W
R843	1-216-389-11	METAL OXIDE	1 5% 3W F	R1747	1-249-429-11	CARBON	10K 5% 1/4W
R844	1-214-864-00	METAL	1K 1% W	R1748	1-249-424-11	CARBON	3.9K 5% 1/4W
R845	1-214-913-00	METAL	100K 1% 1/2W	R1749	1-249-441-11	CARBON	100K 5% 1/4W
R846	1-249-496-11	CARBON	100K 5% 1/2W	R1750	1-249-409-11	CARBON	220 5% 1/4W
R847	1-249-429-11	CARBON	10K 5% 1/4W	R1751	1-249-426-11	CARBON	5.6K 5% 1/4W
R848	1-215-925-11	METAL OXIDE	22K 5% 3W F	R1752	1-249-423-11	CARBON	3.3K 5% 1/4W
R849	1-215-925-11	METAL OXIDE	22K 5% 3W F	R1753	1-249-417-11	CARBON	1K 5% 1/4W
R1501	1-249-462-11	CARBON	22K 5% 1/4W	R1754	1-249-429-11	CARBON	10K 5% 1/4W
R1502	1-249-434-11	CARBON	27K 5% 1/4W	R1755	1-249-429-11	CARBON	10K 5% 1/4W
R1503	1-247-895-00	CARBON	470K 5% 1/4W	R1756	1-247-713-11	CARBON	1K 5% 1/4W
R1504	1-249-435-11	CARBON	33K 5% 1/4W	R1757	1-249-413-11	CARBON	470 5% 1/4W
R1505	1-249-433-11	CARBON	22K 5% 1/4W	R1758	1-249-423-11	CARBON	3.3K 5% 1/4W
R1506	1-247-895-00	CARBON	470K 5% 1/4W	R1759	1-215-906-11	METAL OXIDE	15 5% 3W F
R1507	1-247-895-00	CARBON	470K 5% 1/4W	R1760	1-249-419-11	CARBON	1.5K 5% 1/4W
R1508	1-249-438-11	CARBON	56K 5% 1/4W	R1761	1-249-426-11	CARBON	5.6K 5% 1/4W
R1509	1-249-441-11	CARBON	100K 5% 1/4W	R1762	1-215-858-00	METAL OXIDE	15 5% 1W
R1510	1-249-426-11	CARBON	5.6K 5% 1/4W	R1763	1-249-421-11	CARBON	2.2K 5% 1/4W
R1511	1-249-417-11	CARBON	1K 5% 1/4W	R1764	1-249-409-11	CARBON	220 5% 1/4W
R1512	1-247-725-11	CARBON	10K 5% 1/4W	R1774	1-249-421-11	CARBON	2.2K 5% 1/4W
R1513	1-247-883-00	CARBON	150K 5% 1/4W	R1775	1-249-429-11	CARBON	10K 5% 1/4W
R1514	1-249-417-11	CARBON	1K 5% 1/4W	R1776	1-247-706-11	CARBON	330 5% 1/4W
R1515	1-249-439-11	CARBON	68K 5% 1/4W	R1778	1-249-423-11	CARBON	3.3K 5% 1/4W
R1516	1-249-432-11	CARBON	18K 5% 1/4W	R1779	1-249-422-11	CARBON	2.7K 5% 1/4W
R1517	1-249-411-11	CARBON	330 5% 1/4W	R1780	1-249-437-11	CARBON	47K 5% 1/4W
R1518	1-249-429-11	CARBON	10K 5% 1/4W	R1787	1-249-425-11	CARBON	4.7K 5% 1/4W
R1519	1-247-897-11	CARBON	560K 5% 1/4W	R1792	1-249-435-11	CARBON	33K 5% 1/4W
R1521	1-249-427-11	CARBON	6.8K 5% 1/4W	R1794	1-249-419-11	CARBON	1.5K 5% 1/4W
R1523	1-247-903-00	CARBON	1M 5% 1/4W	R5113	1-249-467-11	CARBON	68K 5% 1/4W
R1552	1-249-426-11	CARBON	5.6K 5% 1/4W	R5501	1-247-725-11	CARBON	10K 5% 1/4W
R1553	1-215-917-11	METAL OXIDE	1K 5% 3W F	R5502	1-249-417-11	CARBON	1K 5% 1/4W
R1554	1-249-407-11	CARBON	150 5% 1/4W	R5503	1-249-429-11	CARBON	10K 5% 1/4W
R1602	1-247-881-00	CARBON	120K 5% 1/4W	R5504	1-249-459-11	CARBON	12K 5% 1/4W
R1636	1-249-431-11	CARBON	15K 5% 1/4W	R5505	1-215-870-11	METAL OXIDE	1.5K 5% 1W
R1638	1-249-435-11	CARBON	33K 5% 1/4W	R5511	1-249-429-11	CARBON	10K 5% 1/4W
R1643	1-247-721-11	CARBON	4.7K 5% 1/4W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KV-D3431D
RM-811

D **VM** **V**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>				Q756	8-729-107-26	TRANSISTOR 2SD1585-K	
RV502	1-238-016-11	RES, ADJ, CARBON 10K		Q757	8-729-119-78	TRANSISTOR 2SC2785-HFE	
RV1501	1-238-023-11	RES, ADJ, CARBON 470K		<RESISTOR>			
RV1502	1-238-016-11	RES, ADJ, CARBON 10K		R711	1-249-423-11	CARBON 3.3K 5%	1/4W
RV1503	1-238-017-11	RES, ADJ, CARBON 22K		R751	1-249-409-11	CARBON 220 5%	1/4W
RV1504	1-238-012-11	RES, ADJ, CARBON 1K		R752	1-249-409-11	CARBON 220 5%	1/4W
RV1505	1-238-023-11	RES, ADJ, CARBON 470K		R753	1-249-418-11	CARBON 1.2K 5%	1/4W
RV1506	1-238-017-11	RES, ADJ, CARBON 22K		R754	1-249-416-11	CARBON 820 5%	1/4W
RV1507	1-238-009-11	RES, ADJ, CARBON 220		R755	1-216-431-11	METAL OXIDE 560 5%	1W
RV1508	1-238-015-11	RES, ADJ, CARBON 4.7K		R756	1-249-414-11	CARBON 560 5%	1/4W
RV1509	1-238-023-11	RES, ADJ, CARBON 470K		R757	1-249-426-11	CARBON 5.6K 5%	1/4W
RV1701	1-238-012-11	RES, ADJ, CARBON 1K		R758	1-249-435-11	CARBON 33K 5%	1/4W
RV1702	1-238-016-11	RES, ADJ, CARBON 10K		R759	1-212-881-11	FUSIBLE 100 5%	1/4W
RV1703	1-238-012-11	RES, ADJ, CARBON 1K		R760	1-216-449-11	METAL OXIDE 56 5%	2W
RV1704	1-238-016-11	RES, ADJ, CARBON 10K		R764	1-249-409-11	CARBON 220 5%	1/4W
RV1705	1-238-017-11	RES, ADJ, CARBON 22K		R765	1-217-637-00	FUSIBLE 1 5%	1/4W F
<SPARK GAP>				R766	1-249-426-11	CARBON 5.6K 5%	1/4W
SG801	1-519-063-99	DISCHARGING GAP		R767	1-249-417-11	CARBON 1K 5%	1/4W
<TRANSFORMER>				R768	1-249-426-11	CARBON 5.6K 5%	1/4W
T801	1-437-090-00	HDT		R769	1-249-409-11	CARBON 220 5%	1/4W
T802	1-439-418-21	TRANSFORMER ASSY, FLYBACK (UX-1610)		R772	1-212-853-00	FUSIBLE 6.8 5%	1/4W F
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)		R773	1-249-396-11	CARBON 18 5%	1/4W
T804	1-459-957-11	TRANSFORMER		R776	1-217-637-00	FUSIBLE 1 5%	1/4W F
T805	1-421-794-11	TRANSFORMER, FERRITE (PMT)		*****			
*****				*A-1645-009-A	V BOARD, COMPLETE		
*****				*****			
*1-636-577-11	VM BOARD			*4-380-698-01	CASE (MAIN), SHIELD, A1		
*****				*4-380-699-01	CASE (UPPER LID), SHIELD, A1		
*1-564-506-11	PLUG, CONNECTOR 3P			<CAPACITOR>			
*1-564-507-11	PLUG, CONNECTOR 4P			C02	1-124-120-11	ELECT 220MF	20% 16V
<CAPACITOR>				C03	1-124-119-00	ELECT 330MF	20% 16V
C751	1-102-971-00	CERAMIC 82PF	5% 50V	C05	1-126-101-11	ELECT 100MF	20% 16V
C752	1-106-349-00	MYLAR 0.0018MF	10% 100V	C06	1-124-120-11	ELECT 220MF	20% 16V
C754	1-126-101-11	ELECT 100MF	20% 16V	C07	1-124-791-11	ELECT 1MF	20% 50V
C755	1-102-973-00	CERAMIC 100PF	5% 50V	C08	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C756	1-106-367-00	MYLAR 0.01MF	10% 400V	C09	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C758	1-106-367-00	MYLAR 0.01MF	10% 400V	C10	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C760	1-124-925-11	ELECT 2.2MF	20% 50V	C11	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C761	1-106-220-00	MYLAR 0.1MF	10% 100V	C12	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
C763	1-124-122-11	ELECT 100MF	20% 35V	C13	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C764	1-126-176-11	ELECT 220MF	20% 6.3V	C14	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C765	1-101-006-00	CERAMIC 0.047MF	50V	C15	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C766	1-124-122-11	ELECT 100MF	20% 35V	C16	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
<COIL>				C17	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
L751	1-408-413-00	INDUCTOR 22UH		C18	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
L752	1-408-421-00	INDUCTOR 100UH		C19	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
<TRANSISTOR>				C20	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE		C21	1-163-833-00	CERAMIC CHIP 0.068MF	25V
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE		C22	1-102-959-00	CERAMIC 22PF	5% 50V
Q753	8-729-140-96	TRANSISTOR 2SD774-34		C24	1-126-101-11	ELECT 100MF	20% 16V
Q754	8-729-177-22	TRANSISTOR 2SB772-Q		C25	1-124-477-11	ELECT 47MF	20% 16V
Q755	8-729-188-23	TRANSISTOR 2SD882-P		C27	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
				C28	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
				C51	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C52	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C53	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C54	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C55	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C56	1-163-038-00	CERAMIC CHIP 0.1MF	25V

V

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C57	1-124-477-11	ELECT 47MF	20% 16V	JW26	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C58	1-124-477-11	ELECT 47MF	20% 16V	JW29	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C59	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JW30	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C60	1-163-133-00	CERAMIC CHIP 470PF	5% 50V				
<CONNECTOR>				JW31	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CNV03	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		JW32	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CNV41	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JW33	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CNV42	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JW34	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JW35	1-216-295-00	METAL GLAZE 0 5% 1/10W	
<TRIMMER>				JW42	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CT01	1-141-181-11	CAP, TRIMMER		JW43	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JW47	1-216-295-00	METAL GLAZE 0 5% 1/10W	
<DIODE>				R02	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
D01	8-719-105-91	DIODE RD5.6M-B2		R05	1-216-025-00	METAL GLAZE 100 5% 1/10W	
D02	8-719-106-79	DIODE RD13M-B1					
D03	8-719-400-18	DIODE MA152WK		R06	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
D07	8-719-106-17	DIODE RD6.8M-B2		R07	1-216-025-00	METAL GLAZE 100 5% 1/10W	
D08	8-719-106-17	DIODE RD6.8M-B2		R08	1-216-037-00	METAL GLAZE 330 5% 1/10W	
				R09	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
D10	8-719-400-18	DIODE MA152WK		R19	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
<IC>							
IC1	8-759-038-58	IC SDA20162-A002		R20	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
IC2	8-759-037-64	IC SDA5231-2		R27	1-216-013-00	METAL GLAZE 33 5% 1/10W	
IC3	8-759-032-98	IC SDA5243		R28	1-216-013-00	METAL GLAZE 33 5% 1/10W	
IC4	8-759-230-69	IC TC5563APL-12L		R29	1-216-013-00	METAL GLAZE 33 5% 1/10W	
<COIL>				R30	1-249-406-11	CARBON 120 5% 1/4W	
L01	1-408-411-00	INDUCTOR 15UH					
L04	1-408-407-00	INDUCTOR 6.8UH		R31	1-249-406-11	CARBON 120 5% 1/4W	
L05	1-408-407-00	INDUCTOR 6.8UH		R32	1-249-406-11	CARBON 120 5% 1/4W	
L06	1-408-407-00	INDUCTOR 6.8UH		R33	1-216-023-00	METAL GLAZE 82 5% 1/10W	
<IC LINK>				R34	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
PS01	Δ 1-532-679-91	LINK, IC (ICP-N15) 0.6A		R37	1-216-025-00	METAL GLAZE 100 5% 1/10W	
PS02	Δ 1-532-727-91	LINK, IC 0.25A					
<TRANSISTOR>				R38	1-216-047-00	METAL GLAZE 820 5% 1/10W	
Q3	8-729-900-53	TRANSISTOR DTC114EK		R41	1-216-041-00	METAL GLAZE 470 5% 1/10W	
Q01	8-729-920-92	TRANSISTOR 2SD2096-EF		R44	1-216-041-00	METAL GLAZE 470 5% 1/10W	
Q02	8-729-807-50	TRANSISTOR 2SD1623-R		R45	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q04	8-729-271-22	TRANSISTOR 2SC2712-G		R46	1-216-311-00	METAL GLAZE 6.8 5% 1/10W	
Q05	8-729-807-50	TRANSISTOR 2SD1623-R					
Q07	8-729-900-98	TRANSISTOR DTC143TK		R51	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q09	8-729-807-87	TRANSISTOR 2SB1295-UL6		R52	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q10	8-729-807-87	TRANSISTOR 2SB1295-UL6		R53	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q11	8-729-807-87	TRANSISTOR 2SB1295-UL6		R54	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q14	8-729-807-87	TRANSISTOR 2SB1295-UL6		R55	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
<RESISTOR>							
JW19	1-216-295-00	METAL GLAZE 0 5% 1/10W		R56	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JW20	1-216-295-00	METAL GLAZE 0 5% 1/10W		R57	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JW21	1-216-295-00	METAL GLAZE 0 5% 1/10W		R58	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JW22	1-216-295-00	METAL GLAZE 0 5% 1/10W		R59	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
JW23	1-216-295-00	METAL GLAZE 0 5% 1/10W		R60	1-216-041-00	METAL GLAZE 470 5% 1/10W	
JW24	1-216-295-00	METAL GLAZE 0 5% 1/10W					
JW25	1-216-295-00	METAL GLAZE 0 5% 1/10W		R61	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
				R64	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
				R65	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
				R66	1-216-041-00	METAL GLAZE 470 5% 1/10W	
				R67	1-216-041-00	METAL GLAZE 470 5% 1/10W	
				R78	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R79	1-249-410-11	CARBON 270 5% 1/4W	
				R80	1-249-410-11	CARBON 270 5% 1/4W	
<VARIABLE RESISTOR>							
RV01	1-238-012-11	RES, ADJ, CARBON 1K					
<CRYSTAL>							
X01	1-567-162-00	OSCILLATOR, CRYSTAL					
X02	1-567-495-11	OSCILLATOR, CRYSTAL					
X03	1-577-364-11	VIBRATOR, CERAMIC					

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
*1-636-575-11	H1 BOARD	*****		4-200-001-01	HOLDER, IC						
1-562-837-11	JACK			4-201-023-01	SPACER, INSULATING						
*1-564-507-11	PLUG, CONNECTOR 4P			*4-380-699-01	CASE (UPPER LID), SHIELD, A1						
*1-564-595-11	PLUG, CONNECTOR 14P			4-812-134-00	RIVET NYLON, 3.5						
1-565-639-11	JACK, PIN 1P										
1-565-641-11	JACK, PIN 1P										
1-565-666-12	TERMINAL, S 4P										
1-580-322-11	JACK, PIN (WITH SW)										
	<CAPACITOR>										
C901	1-101-004-00	CERAMIC	0.01MF	50V	C1002	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C902	1-101-004-00	CERAMIC	0.01MF	50V	C1003	1-123-875-11	ELECT	10MF	20%	50V	
C903	1-102-114-00	CERAMIC	470PF	10%	50V	C1004	1-124-120-11	ELECT	220MF	20%	16V
C904	1-102-114-00	CERAMIC	470PF	10%	50V	C1005	1-124-791-11	ELECT	1MF	20%	50V
					C1010	1-124-120-11	ELECT	220MF	20%	16V	
	<RESISTOR>										
R901	1-249-405-11	CARBON	100	5%	1/4W	C1011	1-101-004-00	CERAMIC	0.01MF		50V
R902	1-249-405-11	CARBON	100	5%	1/4W	C1012	1-101-004-00	CERAMIC	0.01MF		50V
					C1013	1-106-220-00	MYLAR	0.1MF	10%	100V	
					C1014	1-106-220-00	MYLAR	0.1MF	10%	100V	
					C1015	1-124-902-00	ELECT	0.47MF	20%	50V	
					C1016	1-102-074-00	CERAMIC	0.001MF	10%	50V	
					C1017	1-106-220-00	MYLAR	0.1MF	10%	100V	
					C1018	1-102-980-00	CERAMIC	270PF	5%	50V	
					C1019	1-106-383-00	MYLAR	0.047MF	10%	100V	
					C1020	1-124-917-11	ELECT	33MF	20%	50V	
					C1021	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1022	1-101-004-00	CERAMIC	0.01MF		50V	
					C1023	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1024	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1025	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1026	1-124-917-11	ELECT	33MF	20%	50V	
					C1027	1-123-875-11	ELECT	10MF	20%	50V	
					C1036	1-124-927-11	ELECT	4.7MF	20%	50V	
					C1098	1-124-360-00	ELECT	1000MF	20%	16V	
					C1099	1-124-360-00	ELECT	1000MF	20%	16V	
					C1250	1-123-875-11	ELECT	10MF	20%	50V	
					C1251	1-124-925-11	ELECT	2.2MF	20%	50V	
					C1252	1-126-233-11	ELECT	22MF	20%	50V	
					C1253	1-102-074-00	CERAMIC	0.001MF	10%	50V	
					C1254	1-106-220-00	MYLAR	0.1MF	10%	100V	
					C1255	1-124-637-11	ELECT	1000MF	20%	50V	
					C1256	1-124-925-11	ELECT	2.2MF	20%	50V	
					C1257	1-124-607-11	ELECT	2200MF	20%	50V	
					C1260	1-123-875-11	ELECT	10MF	20%	50V	
					C1261	1-124-925-11	ELECT	2.2MF	20%	50V	
					C1262	1-126-233-11	ELECT	22MF	20%	50V	
					C1263	1-102-074-00	CERAMIC	0.001MF	10%	50V	
					C1264	1-106-220-00	MYLAR	0.1MF	10%	100V	
					C1266	1-124-925-11	ELECT	2.2MF	20%	50V	
					C1267	1-124-607-11	ELECT	2200MF	20%	50V	
					C1901	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1902	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1903	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1904	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1905	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1907	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1908	1-102-973-00	CERAMIC	100PF	5%	50V	
					C1909	1-124-927-11	ELECT	4.7MF	20%	50V	
						</					

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<NETWORK>				R1007	1-249-425-11	CARBON	4.7K 5% 1/4W
CP1001	1-236-841-11	NETWORK, C		R1008	1-249-429-11	CARBON	10K 5% 1/4W
CP1002	1-236-967-11	NETWORK, RES, THICK FILM		R1009	1-249-429-11	CARBON	10K 5% 1/4W
<DIODE>				R1010	1-249-413-11	CARBON	470 5% 1/4W
D1001	8-719-911-19	DIODE 1SS119		R1011	1-249-425-11	CARBON	4.7K 5% 1/4W
D1002	8-719-109-98	DIODE RD6.8ES-B3		R1012	1-249-429-11	CARBON	10K 5% 1/4W
D1003	8-719-911-19	DIODE 1SS119		R1013	1-249-429-11	CARBON	10K 5% 1/4W
D1005	8-719-109-89	DIODE RD5.6ES-B2		R1014	1-249-435-11	CARBON	33K 5% 1/4W
D1006	8-719-109-71	DIODE RD3.9ES-B1		R1015	1-249-423-11	CARBON	3.3K 5% 1/4W
D1007	1-124-925-11	ELECT 2.2MF 20% 50V		R1016	1-249-435-11	CARBON	33K 5% 1/4W
D1008	8-719-421-09	DIODE MA723		R1017	1-249-436-11	CARBON	39K 5% 1/4W
D1009	8-719-109-89	DIODE RD5.6ES-B2		R1018	1-249-440-11	CARBON	82K 5% 1/4W
D1010	8-719-109-93	DIODE RD6.2ES-B2		R1019	1-249-405-11	CARBON	100 5% 1/4W
D1011	8-719-109-93	DIODE RD6.2ES-B2		R1020	1-249-405-11	CARBON	100 5% 1/4W
D1012	8-719-911-19	DIODE 1SS119		R1021	1-249-425-11	CARBON	4.7K 5% 1/4W
D1013	8-719-911-19	DIODE 1SS119		R1022	1-249-429-11	CARBON	10K 5% 1/4W
D1024	8-719-110-76	DIODE RD33ES-B1		R1023	1-249-433-11	CARBON	22K 5% 1/4W
D1025	8-719-110-54	DIODE RD20ES-B3		R1024	1-215-924-00	METAL OXIDE	15K 5% 3W F
<IC>				R1025	1-249-405-11	CARBON	100 5% 1/4W
IC1001	8-759-512-68	IC SDA20560A-007		R1026	1-249-417-11	CARBON	1K 5% 1/4W
IC1003	8-759-945-58	IC RC4558P		R1027	1-249-405-11	CARBON	100 5% 1/4W
IC1004	8-759-208-06	IC TC4051BPHB		R1028	1-249-405-11	CARBON	100 5% 1/4W
IC1005	8-759-748-56	IC SDA2546		R1029	1-249-429-11	CARBON	10K 5% 1/4W
IC1006	8-759-208-06	IC TC4051BPHB		R1030	1-249-429-11	CARBON	10K 5% 1/4W
IC1007	8-759-208-10	IC TC4053BPHB		R1031	1-249-433-11	CARBON	22K 5% 1/4W
IC1099	8-759-502-23	IC L78S05CV		R1032	1-249-429-11	CARBON	10K 5% 1/4W
IC1251	8-759-988-94	IC TDA2050		R1033	1-249-429-11	CARBON	10K 5% 1/4W
IC1261	8-759-988-94	IC TDA2050		R1034	1-249-431-11	CARBON	15K 5% 1/4W
<COIL>				R1035	1-249-433-11	CARBON	22K 5% 1/4W
L1099	1-410-397-21	FERRITE BEAD INDUCTOR		R1036	1-249-434-11	CARBON	27K 5% 1/4W
<IC LINK>				R1037	1-249-427-11	CARBON	6.8K 5% 1/4W
PS1099A	1-532-984-91	LINK, IC (ICP-N50) 2A		R1038	1-249-427-11	CARBON	6.8K 5% 1/4W
<TRANSISTOR>				R1039	1-249-433-11	CARBON	22K 5% 1/4W
Q1001	8-729-900-89	TRANSISTOR DTC144ES		R1040	1-249-431-11	CARBON	15K 5% 1/4W
Q1002	8-729-900-89	TRANSISTOR DTC144ES		R1041	1-249-429-11	CARBON	10K 5% 1/4W
Q1003	8-729-173-38	TRANSISTOR 2SA733-K		R1042	1-249-417-11	CARBON	1K 5% 1/4W
Q1004	8-729-173-38	TRANSISTOR 2SA733-K		R1043	1-249-413-11	CARBON	470 5% 1/4W
Q1005	8-729-900-89	TRANSISTOR DTC144ES		R1044	1-249-441-11	CARBON	100K 5% 1/4W
Q1006	8-729-900-89	TRANSISTOR DTC144ES		R1045	1-249-423-11	CARBON	3.3K 5% 1/4W
Q1007	8-729-900-89	TRANSISTOR DTC144ES		R1046	1-249-440-11	CARBON	82K 5% 1/4W
Q1008	8-729-900-89	TRANSISTOR DTC144ES		R1047	1-249-429-11	CARBON	10K 5% 1/4W
Q1009	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1048	1-249-429-11	CARBON	10K 5% 1/4W
Q1010	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1049	1-249-429-11	CARBON	10K 5% 1/4W
Q1060	8-729-900-89	TRANSISTOR DTC144ES		R1050	1-249-426-11	CARBON	5.6K 5% 1/4W
Q1061	8-729-900-89	TRANSISTOR DTC144ES		R1051	1-249-413-11	CARBON	470 5% 1/4W
Q1251	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1052	1-249-417-11	CARBON	1K 5% 1/4W
Q1261	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1053	1-249-417-11	CARBON	1K 5% 1/4W
Q1901	8-729-173-38	TRANSISTOR 2SA733-K		R1054	1-249-417-11	CARBON	1K 5% 1/4W
<RESISTOR>				R1055	1-249-411-11	CARBON	330 5% 1/4W
R1001	1-249-413-11	CARBON	470 5% 1/4W	R1056	1-249-417-11	CARBON	1K 5% 1/4W
R1002	1-249-413-11	CARBON	470 5% 1/4W	R1057	1-249-417-11	CARBON	1K 5% 1/4W
R1004	1-249-417-11	CARBON	1K 5% 1/4W	R1058	1-249-424-11	CARBON	3.9K 5% 1/4W
R1005	1-249-417-11	CARBON	1K 5% 1/4W	R1059	1-249-417-11	CARBON	1K 5% 1/4W
R1006	1-249-429-11	CARBON	10K 5% 1/4W	R1060	1-249-417-11	CARBON	1K 5% 1/4W
R1007	1-249-425-11	CARBON	4.7K 5% 1/4W	R1061	1-249-417-11	CARBON	1K 5% 1/4W
R1008	1-249-429-11	CARBON	10K 5% 1/4W	R1062	1-249-429-11	CARBON	10K 5% 1/4W
R1009	1-249-429-11	CARBON	10K 5% 1/4W	R1063	1-249-417-11	CARBON	1K 5% 1/4W
R1010	1-249-413-11	CARBON	470 5% 1/4W	R1064	1-249-413-11	CARBON	470 5% 1/4W
R1011	1-249-425-11	CARBON	4.7K 5% 1/4W	R1065	1-249-417-11	CARBON	1K 5% 1/4W
R1012	1-249-429-11	CARBON	10K 5% 1/4W	R1066	1-249-413-11	CARBON	470 5% 1/4W
R1013	1-249-429-11	CARBON	10K 5% 1/4W	R1067	1-249-413-11	CARBON	470 5% 1/4W
R1014	1-249-435-11	CARBON	33K 5% 1/4W	R1068	1-249-405-11	CARBON	100 5% 1/4W
R1015	1-249-423-11	CARBON	3.3K 5% 1/4W	R1069	1-249-405-11	CARBON	100 5% 1/4W
R1016	1-249-435-11	CARBON	33K 5% 1/4W	R1070	1-249-417-11	CARBON	1K 5% 1/4W
R1017	1-249-436-11	CARBON	39K 5% 1/4W	R1071	1-249-417-11	CARBON	1K 5% 1/4W
R1018	1-249-440-11	CARBON	82K 5% 1/4W	R1072	1-249-417-11	CARBON	1K 5% 1/4W
R1019	1-249-405-11	CARBON	100 5% 1/4W				
R1020	1-249-405-11	CARBON	100 5% 1/4W				
R1021	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1022	1-249-429-11	CARBON	10K 5% 1/4W				
R1023	1-249-433-11	CARBON	22K 5% 1/4W				
R1024	1-215-924-00	METAL OXIDE	15K 5% 3W F				
R1025	1-249-405-11	CARBON	100 5% 1/4W				
R1026	1-249-417-11	CARBON	1K 5% 1/4W				
R1027	1-249-405-11	CARBON	100 5% 1/4W				
R1028	1-249-405-11	CARBON	100 5% 1/4W				
R1029	1-249-429-11	CARBON	10K 5% 1/4W				
R1030	1-249-429-11	CARBON	10K 5% 1/4W				
R1031	1-249-433-11	CARBON	22K 5% 1/4W				
R1032	1-249-429-11	CARBON	10K 5% 1/4W				
R1033	1-249-429-11	CARBON	10K 5% 1/4W				
R1034	1-249-431-11	CARBON	15K 5% 1/4W				
R1035	1-249-433-11	CARBON	22K 5% 1/4W				
R1036	1-249-434-11	CARBON	27K 5% 1/4W				
R1037	1-249-427-11	CARBON	6.8K 5% 1/4W				
R1038	1-249-427-11	CARBON	6.8K 5% 1/4W				
R1039	1-249-433-11	CARBON	22K 5% 1/4W				
R1040	1-249-431-11	CARBON	15K 5% 1/4W				
R1041	1-249-429-11	CARBON	10K 5% 1/4W				
R1042	1-249-417-11	CARBON	1K 5% 1/4W				
R1043	1-249-413-11	CARBON	470 5% 1/4W				
R1044	1-249-441-11	CARBON	100K 5% 1/4W				
R1045	1-249-423-11	CARBON	3.3K 5% 1/4W				
R1046	1-249-440-11	CARBON	82K 5% 1/4W				
R1047	1-249-429-11	CARBON	10K 5% 1/4W				
R1048	1-249-429-11	CARBON	10K 5% 1/4W				
R1049	1-249-429-11	CARBON	10K 5% 1/4W				
R1050	1-249-426-11	CARBON	5.6K 5% 1/4W				
R1051	1-249-413-11	CARBON	470 5% 1/4W				
R1052	1-249-417-11	CARBON	1K 5% 1/4W				
R1053	1-249-417-11	CARBON	1K 5% 1/4W				
R1054	1-249-417-11	CARBON	1K 5% 1/4W				
R1055	1-249-411-11	CARBON	330 5% 1/4W				
R1056	1-249-417-11	CARBON	1K 5% 1/4W				
R1057	1-249-417-11	CARBON	1K 5% 1/4W				
R1058	1-249-424-11	CARBON	3.9K 5% 1/4W				
R1059	1-249-417-11	CARBON	1K 5% 1/4W				
R1060	1-249-417-11	CARBON	1K 5% 1/4W				
R1061	1-249-417-11	CARBON	1K 5% 1/4W				
R1062	1-249-429-11	CARBON	10K 5% 1/4W				
R1063	1-249-417-11	CARBON	1K 5% 1/4W				
R1064	1-249-413-11	CARBON	470 5% 1/4W				
R1065	1-249-417-11	CARBON	1K 5% 1/4W				
R1066	1-249-413-11	CARBON	470 5% 1/4W				
R1067	1-249-413-11	CARBON	470 5% 1/4W				
R1068	1-249-405-11	CARBON	100 5% 1/4W				
R1069	1-249-405-11	CARBON	100 5% 1/4W				
R1070	1-249-417-11	CARBON	1K 5% 1/4W				
R1071	1-249-417-11	CARBON	1K 5% 1/4W				
R1072	1-249-417-11	CARBON	1K 5% 1/4W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1073	1-249-417-11	CARBON	1K 5% 1/4W		*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
R1074	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1075	1-249-409-11	CARBON	220 5% 1/4W				
R1076	1-249-429-11	CARBON	10K 5% 1/4W				
R1077	1-249-417-11	CARBON	1K 5% 1/4W				
R1081	1-249-417-11	CARBON	1K 5% 1/4W				
R1082	1-249-429-11	CARBON	10K 5% 1/4W				
R1083	1-249-429-11	CARBON	10K 5% 1/4W				
R1084	1-249-429-11	CARBON	10K 5% 1/4W				
R1085	1-249-429-11	CARBON	10K 5% 1/4W				
R1086	1-249-429-11	CARBON	10K 5% 1/4W				
R1087	1-249-429-11	CARBON	10K 5% 1/4W				
R1093	1-249-429-11	CARBON	10K 5% 1/4W				
R1094	1-249-429-11	CARBON	10K 5% 1/4W				
R1098	1-249-417-11	CARBON	1K 5% 1/4W				
R1099	1-249-417-11	CARBON	1K 5% 1/4W				
R1250	1-215-924-00	METAL OXIDE	15K 5% 3W	F			
R1251	1-249-441-11	CARBON	100K 5% 1/4W				
R1252	1-249-412-11	CARBON	390 5% 1/4W				
R1253	1-249-429-11	CARBON	10K 5% 1/4W				
R1254	1-216-357-00	METAL OXIDE	4.7 5% 1W	F			
R1255	1-249-429-11	CARBON	10K 5% 1/4W				
R1257	1-249-427-11	CARBON	6.8K 5% 1/4W				
R1258	1-215-869-11	METAL OXIDE	1K 5% 1W				
R1259	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1261	1-249-441-11	CARBON	100K 5% 1/4W				
R1262	1-249-412-11	CARBON	390 5% 1/4W				
R1263	1-249-429-11	CARBON	10K 5% 1/4W				
R1264	1-216-357-00	METAL OXIDE	4.7 5% 1W	F			
R1265	1-249-429-11	CARBON	10K 5% 1/4W				
R1266	1-249-441-11	CARBON	100K 5% 1/4W				
R1267	1-249-427-11	CARBON	6.8K 5% 1/4W				
R1268	1-215-869-11	METAL OXIDE	1K 5% 1W				
R1269	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1274	1-249-441-11	CARBON	100K 5% 1/4W				
R1275	1-249-439-11	CARBON	68K 5% 1/4W				
R1276	1-249-435-11	CARBON	33K 5% 1/4W				
R1284	1-249-441-11	CARBON	100K 5% 1/4W				
R1285	1-249-439-11	CARBON	68K 5% 1/4W				
R1286	1-249-435-11	CARBON	33K 5% 1/4W				
R1901	1-249-429-11	CARBON	10K 5% 1/4W				
R1902	1-249-429-11	CARBON	10K 5% 1/4W				
R1904	1-249-429-11	CARBON	10K 5% 1/4W				
R1907	1-249-429-11	CARBON	10K 5% 1/4W				
R1908	1-249-429-11	CARBON	10K 5% 1/4W				
R1909	1-249-429-11	CARBON	10K 5% 1/4W				
R1910	1-249-429-11	CARBON	10K 5% 1/4W				
R1911	1-249-429-11	CARBON	10K 5% 1/4W				
R1912	1-249-429-11	CARBON	10K 5% 1/4W				
R1913	1-249-417-11	CARBON	1K 5% 1/4W				
R1920	1-249-411-11	CARBON	330 5% 1/4W				
R1921	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1922	1-249-428-11	CARBON	8.2K 5% 1/4W				

*A-1651-013-A	J BOARD, COMPLETE	*****					
1-536-996-21	TERMINAL BOARD, INPUT/OUTPUT						
*1-560-278-00	PLUG, CONNECTOR 3P						
1-561-534-41	SOCKET 21P						
*1-564-505-11	PLUG, CONNECTOR 2P						
*1-564-519-11	PLUG, CONNECTOR 4P						
*1-564-593-11	PLUG, CONNECTOR 14P						
1-565-931-11	TERMINAL BLOCK, S 3P						
C201	1-126-103-11	ELECT	470MF 20% 16V				
C203	1-124-925-11	ELECT	2.2MF 20% 50V				
C205	1-124-927-11	ELECT	4.7MF 20% 50V				
C206	1-124-925-11	ELECT	2.2MF 20% 50V				
C207	1-124-927-11	ELECT	4.7MF 20% 50V				
C209	1-163-018-00	CERAMIC CHIP	0.0056MF 10% 50V				
C210	1-163-018-00	CERAMIC CHIP	0.0056MF 10% 50V				
C213	1-126-233-11	ELECT	22MF 20% 50V				
C214	1-106-363-00	MYLAR	0.0068MF 10% 400V				
C217	1-106-363-00	MYLAR	0.0068MF 10% 400V				
C218	1-106-375-12	MYLAR	0.022MF 10% 250V				
C219	1-106-375-12	MYLAR	0.022MF 10% 250V				
C220	1-108-686-11	MYLAR	0.0033MF 10% 100V				
C221	1-108-686-11	MYLAR	0.0033MF 10% 100V				
C222	1-106-385-00	MYLAR	0.056MF 10% 100V				
C223	1-106-385-00	MYLAR	0.056MF 10% 100V				
C224	1-106-367-00	MYLAR	0.01MF 10% 400V				
C225	1-136-173-00	FILM	0.47MF 5% 50V				
C226	1-136-173-00	FILM	0.47MF 5% 50V				
C227	1-106-375-12	MYLAR	0.022MF 10% 250V				
C228	1-106-379-12	MYLAR	0.033MF 10% 250V				
C229	1-106-371-00	MYLAR	0.015MF 10% 400V				
C230	1-106-371-00	MYLAR	0.015MF 10% 400V				
C231	1-124-902-00	ELECT	0.47MF 20% 50V				
C232	1-123-875-11	ELECT	10MF 20% 50V				
C233	1-163-005-11	CERAMIC CHIP	470PF 10% 50V				
C234	1-163-005-11	CERAMIC CHIP	470PF 10% 50V				
C235	1-163-005-11	CERAMIC CHIP	470PF 10% 50V				
C236	1-163-005-11	CERAMIC CHIP	470PF 10% 50V				
C237	1-124-902-00	ELECT	0.47MF 20% 50V				
C238	1-163-125-00	CERAMIC CHIP	220PF 5% 50V				
C239	1-126-103-11	ELECT	470MF 20% 16V				
C240	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V				
C241	1-163-005-11	CERAMIC CHIP	470PF 10% 50V				
C242	1-163-005-11	CERAMIC CHIP	470PF 10% 50V				
C243	1-106-228-00	MYLAR	0.22MF 10% 100V				
C244	1-106-228-00	MYLAR	0.22MF 10% 100V				
C245	1-106-228-00	MYLAR	0.22MF 10% 100V				
C246	1-106-228-00	MYLAR	0.22MF 10% 100V				
C247	1-124-902-00	ELECT	0.47MF 20% 50V				
C248	1-124-902-00	ELECT	0.47MF 20% 50V				
C249	1-124-902-00	ELECT	0.47MF 20% 50V				
C250	1-124-925-11	ELECT	2.2MF 20% 50V				
C251	1-124-925-11	ELECT	2.2MF 20% 50V				
C252	1-106-375-12	MYLAR	0.022MF 10% 250V				
C253	1-106-375-12	MYLAR	0.022MF 10% 250V				
C254	1-124-925-11	ELECT	2.2MF 20% 50V				
C255	1-124-925-11	ELECT	2.2MF 20% 50V				
C256	1-106-371-00	MYLAR	0.015MF 10% 400V				
C257	1-106-371-00	MYLAR	0.015MF 10% 400V				
C258	1-106-220-00	MYLAR	0.1MF 10% 100V				
C259	1-106-220-00	MYLAR	0.1MF 10% 100V				
C260	1-123-875-11	ELECT	10MF 20% 50V				
C261	1-123-875-11	ELECT	10MF 20% 50V				
C262	1-126-103-11	ELECT	470MF 20% 16V				
C263	1-126-103-11	ELECT	470MF 20% 16V				
C265	1-163-037-11	CERAMIC CHIP	0.022MF 10% 25V				
C266	1-163-037-11	CERAMIC CHIP	0.022MF 10% 25V				
C267	1-163-037-11	CERAMIC CHIP	0.022MF 10% 25V				
C268	1-163-037-11	CERAMIC CHIP	0.022MF 10% 25V				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
C269	1-163-141-00	CERAMIC CHIP	0.001MF 5%	50V	D1403	8-719-110-04	DIODE RD7.5ES-B3	
C270	1-106-216-00	MYLAR	0.068MF 10%	100V	D1404	8-719-110-04	DIODE RD7.5ES-B3	
C271	1-102-121-00	CERAMIC	0.0022MF 10%	50V	D1405	8-719-110-04	DIODE RD7.5ES-B3	
C272	1-102-121-00	CERAMIC	0.0022MF 10%	50V	D1406	8-719-110-04	DIODE RD7.5ES-B3	
C273	1-102-961-00	CERAMIC	27PF 5%	50V	D1407	8-719-110-18	DIODE RD10ES-B3	
C280	1-106-375-12	MYLAR	0.022MF 10%	250V	D1408	8-719-110-14	DIODE RD9.1ES-B3	
C281	1-106-375-12	MYLAR	0.022MF 10%	250V	D1409	8-719-110-14	DIODE RD9.1ES-B3	
C282	1-102-114-00	CERAMIC	470PF 10%	50V	D1410	8-719-110-14	DIODE RD9.1ES-B3	
C1401	1-124-120-11	ELECT	220MF 20%	16V	D1415	8-719-110-04	DIODE RD7.5ES-B3	
C1402	1-126-103-11	ELECT	470MF 20%	16V	D1418	8-719-110-04	DIODE RD7.5ES-B3	
C1403	1-163-003-11	CERAMIC CHIP	330PF 10%	50V	D1419	8-719-110-04	DIODE RD7.5ES-B3	
C1404	1-106-220-00	MYLAR	0.1MF 10%	100V	D1420	8-719-110-04	DIODE RD7.5ES-B3	
C1405	1-136-017-00	CERAMIC CHIP	0.0047MF 10%	50V	D1426	8-719-110-04	DIODE RD7.5ES-B3	
C1406	1-106-220-00	MYLAR	0.1MF 10%	100V	D1801	8-719-110-04	DIODE RD7.5ES-B3	
C1407	1-124-910-11	ELECT	47MF 20%	50V	D1802	8-719-110-04	DIODE RD7.5ES-B3	
C1408	1-124-122-11	ELECT	100MF 20%	50V	D1803	8-719-110-04	DIODE RD7.5ES-B3	
C1409	1-126-233-11	ELECT	22MF 20%	50V	D1804	8-719-110-04	DIODE RD7.5ES-B3	
C1410	1-123-875-11	ELECT	10MF 20%	50V	D1805	8-719-110-04	DIODE RD7.5ES-B3	
C1411	1-123-875-11	ELECT	10MF 20%	50V	D1806	8-719-110-04	DIODE RD7.5ES-B3	
C1412	1-124-910-11	ELECT	47MF 20%	50V				
C1413	1-124-910-11	ELECT	47MF 20%	50V				
C1414	1-123-875-11	ELECT	10MF 20%	50V				
C1415	1-106-220-00	MYLAR	0.1MF 10%	100V				
C1416	1-106-220-00	MYLAR	0.1MF 10%	100V				
C1417	1-124-120-11	ELECT	220MF 20%	16V				
C1418	1-163-003-11	CERAMIC CHIP	330PF 10%	50V				
C1419	1-163-003-11	CERAMIC CHIP	330PF 10%	50V				
C1425	1-124-902-00	ELECT	0.47MF 20%	50V				
C1426	1-124-902-00	ELECT	0.47MF 20%	50V				
C1427	1-136-017-00	CERAMIC CHIP	0.0047MF 10%	50V				
C1428	1-136-017-00	CERAMIC CHIP	0.0047MF 10%	50V				
C1429	1-136-017-00	CERAMIC CHIP	0.0047MF 10%	50V				
C1430	1-163-003-11	CERAMIC CHIP	330PF 10%	50V				
C1431	1-126-529-11	ELECT	0.47MF 20%	50V				
C1432	1-124-902-00	ELECT	0.47MF 20%	50V				
C1433	1-124-122-11	ELECT	100MF 20%	50V				
C1439	1-106-367-00	MYLAR	0.01MF 10%	400V				
C1444	1-124-910-11	ELECT	47MF 20%	50V				
C1801	1-124-790-11	ELECT	0.47MF 20%	100V				
C1802	1-124-790-11	ELECT	0.47MF 20%	100V				
C1803	1-124-790-11	ELECT	0.47MF 20%	100V				
C1804	1-124-790-11	ELECT	0.47MF 20%	100V				
C1807	1-106-220-00	MYLAR	0.1MF 10%	100V				
C1808	1-124-910-11	ELECT	47MF 20%	50V				
C1809	1-124-910-11	ELECT	47MF 20%	50V				
C1810	1-124-477-11	ELECT	47MF 20%	16V				
C1811	1-106-367-00	MYLAR	0.01MF 10%	400V				
C1812	1-126-101-11	ELECT	100MF 20%	16V				
C1813	1-124-477-11	ELECT	47MF 20%	16V				
C1814	1-106-367-00	MYLAR	0.01MF 10%	400V				
C1816	1-126-101-11	ELECT	100MF 20%	16V				
C1817	1-124-910-11	ELECT	47MF 20%	50V				
C1818	1-124-910-11	ELECT	47MF 20%	50V				
C1820	1-124-910-11	ELECT	47MF 20%	50V				
<DIODE>				<IC>				
D201	8-719-110-14	DIODE RD9.1ES-B3		IC201	8-759-013-17	IC TDA6200		
D202	8-719-110-14	DIODE RD9.1ES-B3		IC202	8-759-208-08	IC TC4052BPHB		
D205	8-719-110-04	DIODE RD7.5ES-B3		IC203	8-759-502-22	IC TDA7303		
D206	8-719-110-04	DIODE RD7.5ES-B3		IC204	8-759-502-21	IC TDA2822M		
D208	8-719-110-04	DIODE RD7.5ES-B3		IC1401	8-752-032-27	IC CXA1114P		
D209	8-719-110-04	DIODE RD7.5ES-B3		IC1402	8-759-946-32	IC TEA2014A		
D210	8-719-110-04	DIODE RD7.5ES-B3		IC1403	8-759-040-53	IC MC14053BCP		
D212	8-719-110-04	DIODE RD7.5ES-B3		IC1404	8-759-998-02	IC TEA5114A		
D1401	8-719-110-04	DIODE RD7.5ES-B3		IC1405	8-759-208-08	IC TC4052BPHB		
<COIL>				<TRANSISTOR>				
L201	1-408-427-00	INDUCTOR	330UH	Q201	8-729-271-22	TRANSISTOR 2SC2712-G		
L1801	1-408-409-00	INDUCTOR	10UH	Q202	8-729-271-22	TRANSISTOR 2SC2712-G		
<RESISTOR>				Q1401	8-729-216-22	TRANSISTOR 2SA1162-G		
JW88	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q1402	8-729-271-22	TRANSISTOR 2SC2712-G	
JW89	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q1403	8-729-271-22	TRANSISTOR 2SC2712-G	
JW90	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q1404	8-729-216-22	TRANSISTOR 2SA1162-G	
JW92	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q1406	8-729-216-22	TRANSISTOR 2SA1162-G	
JW93	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q1407	8-729-216-22	TRANSISTOR 2SA1162-G	
JW102	1-216-041-00	METAL GLAZE	470 5%	1/10W	Q1408	8-729-216-22	TRANSISTOR 2SA1162-G	
JW123	1-216-295-00	METAL GLAZE	0 5%	1/10W	Q1409	8-729-216-22	TRANSISTOR 2SA1162-G	
R202	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W	Q1410	8-729-271-22	TRANSISTOR 2SC2712-G	
R203	1-216-075-00	METAL GLAZE	12K 5%	1/10W				
R204	1-216-085-00	METAL GLAZE	33K 5%	1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R205	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1401	1-216-180-00	METAL GLAZE	180 5% 1/8W
R206	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1402	1-216-170-00	METAL GLAZE	68 5% 1/8W
R207	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1403	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R208	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1404	1-216-178-00	METAL GLAZE	150 5% 1/8W
R209	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1405	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R210	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1407	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R211	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1408	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R212	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1410	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R213	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1411	1-216-041-00	METAL GLAZE	470 5% 1/10W
R214	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1412	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R215	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1413	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R216	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1414	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R217	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1415	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R218	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1416	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R219	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1417	1-216-023-00	METAL GLAZE	82 5% 1/10W
R220	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1418	1-247-738-11	CARBON	82 5% 1/2W F
R221	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1422	1-216-025-00	METAL GLAZE	100 5% 1/10W
R222	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1423	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R223	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1424	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R224	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1425	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R225	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1426	1-216-025-00	METAL GLAZE	100 5% 1/10W
R226	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1427	1-216-001-00	METAL GLAZE	10 5% 1/10W
R227	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1428	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R228	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1429	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R229	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1430	1-216-170-00	METAL GLAZE	68 5% 1/8W
R231	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1431	1-216-041-00	METAL GLAZE	470 5% 1/10W
R232	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1432	1-216-041-00	METAL GLAZE	470 5% 1/10W
R233	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1433	1-216-033-00	METAL GLAZE	220 5% 1/10W
R234	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1434	1-247-688-11	CARBON	10 5% 1/4W F
R235	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1435	1-216-041-00	METAL GLAZE	470 5% 1/10W
R236	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R1436	1-216-023-00	METAL GLAZE	82 5% 1/10W
R237	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1437	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R238	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R1439	1-216-180-00	METAL GLAZE	180 5% 1/8W
R239	1-247-688-11	CARBON	10 5% 1/4W F	R1440	1-216-045-00	METAL GLAZE	680 5% 1/10W
R240	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1441	1-216-045-00	METAL GLAZE	680 5% 1/10W
R241	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1442	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R242	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1443	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R243	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1444	1-216-033-00	METAL GLAZE	220 5% 1/10W
R244	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1445	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R245	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1446	1-216-033-00	METAL GLAZE	220 5% 1/10W
R246	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1447	1-216-033-00	METAL GLAZE	220 5% 1/10W
R247	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1448	1-216-025-00	METAL GLAZE	100 5% 1/10W
R248	1-216-246-00	METAL GLAZE	100K 5% 1/8W	R1452	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R250	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1453	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R251	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1454	1-216-180-00	METAL GLAZE	180 5% 1/8W
R252	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1455	1-216-180-00	METAL GLAZE	180 5% 1/8W
R253	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1457	1-216-025-00	METAL GLAZE	100 5% 1/10W
R254	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1459	1-216-025-00	METAL GLAZE	100 5% 1/10W
R255	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1460	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R256	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1461	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R257	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1462	1-216-043-00	METAL GLAZE	560 5% 1/10W
R258	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	R1463	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R259	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	R1464	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R260	1-247-734-11	CARBON	39 5% 1/2W	R1467	1-216-025-00	METAL GLAZE	100 5% 1/10W
R261	1-247-734-11	CARBON	39 5% 1/2W	R1468	1-216-025-00	METAL GLAZE	100 5% 1/10W
R262	1-217-637-00	FUSIBLE	1 5% 1/4W F	R1469	1-216-025-00	METAL GLAZE	100 5% 1/10W
R270	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1470	1-216-025-00	METAL GLAZE	100 5% 1/10W
R271	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1482	1-216-178-00	METAL GLAZE	150 5% 1/8W
R272	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1483	1-216-178-00	METAL GLAZE	150 5% 1/8W
R273	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1484	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R274	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1485	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R275	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1486	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R276	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1487	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R277	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1488	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C622	1-130-495-00	MYLAR	0.1MF 10% 50V
R1489	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C624	1-124-471-00	ELECT	1000MF 20% 6.3V
R1801	1-216-171-00	METAL GLAZE	75 5% 1/8W	<DIODE>			
R1802	1-216-171-00	METAL GLAZE	75 5% 1/8W	D601	8-719-500-69	DIODE S3V10SS	
R1803	1-216-171-00	METAL GLAZE	75 5% 1/8W	D602	8-719-500-69	DIODE S3V10SS	
R1804	1-216-171-00	METAL GLAZE	75 5% 1/8W	D603	8-719-500-26	DIODE D5KD20H	
R1805	1-216-171-00	METAL GLAZE	75 5% 1/8W	D605	8-719-510-13	DIODE D10SC4MR	
R1806	1-216-171-00	METAL GLAZE	75 5% 1/8W	D606	8-719-510-12	DIODE D10SC4M	
R1807	1-216-025-00	METAL GLAZE	100 5% 1/10W	D607	8-719-300-33	DIODE RU-3AM	
R1808	1-216-037-00	METAL GLAZE	330 5% 1/10W	D608	8-719-300-33	DIODE RU-3AM	
R1809	1-216-037-00	METAL GLAZE	330 5% 1/10W	D609	8-719-500-67	DIODE D5KC40H	
R1810	1-216-025-00	METAL GLAZE	100 5% 1/10W	D610	8-719-911-19	DIODE 1SS119	
R1811	1-216-029-00	METAL GLAZE	150 5% 1/10W	D611	8-719-911-19	DIODE 1SS119	
R1812	1-216-031-00	METAL GLAZE	180 5% 1/10W	D612	8-719-911-19	DIODE 1SS119	
R1813	1-216-186-00	METAL GLAZE	330 5% 1/8W	D613	8-719-911-19	DIODE 1SS119	
R1814	1-216-029-00	METAL GLAZE	150 5% 1/10W	D615	8-719-801-95	DIODE 2GWJ42	
R1815	1-216-029-00	METAL GLAZE	150 5% 1/10W	D616	8-719-911-55	DIODE U05G	
R1816	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	D617	8-719-110-50	DIODE RD18ES-B3	
R1817	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	<CONNECTOR>			
R1818	1-216-049-00	METAL GLAZE	1K 5% 1/10W	G1	*1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P
R1819	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	G2	*1-508-767-00	PIN, CONNECTOR (5MM PITCH)	5P
R1820	1-216-029-00	METAL GLAZE	150 5% 1/10W	G3	*1-564-507-11	PLUG, CONNECTOR	4P
R1821	1-216-029-00	METAL GLAZE	150 5% 1/10W	G4	*1-564-506-11	PLUG, CONNECTOR	3P
R1822	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	<MODULE>			
R1823	1-216-049-00	METAL GLAZE	1K 5% 1/10W	IC601	1-236-237-11	POWER MODULE (DM-38)	
R1824	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	<COIL>			
R1825	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	L603	1-408-300-00	INDUCTOR	6.80UH
R1826	1-216-039-00	METAL GLAZE	390 5% 1/10W	L604	1-421-329-00	COIL, CHOKE	
R1827	1-216-039-00	METAL GLAZE	390 5% 1/10W	L605	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
R1828	1-216-186-00	METAL GLAZE	330 5% 1/8W	L606	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
R1829	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	L607	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
R1831	1-216-073-00	METAL GLAZE	10K 5% 1/10W	L609	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
<SWITCH>				L610	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
S1801	1-570-145-11	SWITCH, SLIDE		L613	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
*****				L615	1-459-155-00	COIL (WITH CORE)	45UH
Δ 1-413-583-11 G BOARD (ZD-113)				L616	1-421-329-00	COIL, CHOKE	
*****				L617	1-421-329-00	COIL, CHOKE	
<CAPACITOR>				L618	1-459-155-00	COIL (WITH CORE)	45UH
C601	1-136-721-21	FILM	1.5MF 10% 400V	<TRANSISTOR>			
C602	1-136-725-11	FILM	0.039MF 5% 1.25KV	Q601	8-729-905-72	TRANSISTOR 2SC4056P	
C603	1-136-725-11	FILM	0.039MF 5% 1.25KV	Q602	8-729-905-72	TRANSISTOR 2SC4056P	
C604	1-130-325-11	FILM	0.15MF 5% 100V	Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C605	1-130-325-11	FILM	0.15MF 5% 100V	Q604	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C606	1-164-143-11	CERAMIC	1000PF 10% 1KV	<RESISTOR>			
C607	1-164-143-11	CERAMIC	1000PF 10% 1KV	R601	1-215-904-11	METAL OXIDE	100K 5% 2W F
C608	1-164-143-11	CERAMIC	1000PF 10% 1KV	R602	1-215-904-11	METAL OXIDE	100K 5% 2W F
C609	1-164-144-11	CERAMIC	1500PF 10% 1KV	R605	1-207-451-00	WIREWOUND	0.1 10% 1/2W
C610	1-164-143-11	CERAMIC	1000PF 10% 1KV	R606	1-207-451-00	WIREWOUND	0.1 10% 1/2W
C611	1-102-038-00	CERAMIC	1000PF 500V	R607	1-216-370-11	METAL OXIDE	1.2 5% 2W F
C612	1-108-843-11	MYLAR	0.033MF 10% 50V	R608	1-216-370-11	METAL OXIDE	1.2 5% 2W F
C613	1-124-477-11	ELECT	47MF 20% 16V	R609	1-249-405-11	CARBON	100 5% 1/4W F
C614	1-126-176-11	ELECT	220MF 20% 6.3V	R610	1-249-405-11	CARBON	100 5% 1/4W F
C615	1-123-380-00	ELECT	1MF 20% 50V	R611	1-249-417-11	CARBON	1K 5% 1/4W
C616	1-124-557-11	ELECT	1000MF 20% 25V				
C618	1-124-439-11	ELECT	2700MF 20% 25V				
C619	1-124-557-11	ELECT	1000MF 20% 25V				
C620	1-124-568-00	ELECT	4700MF 20% 10V				
C621	1-124-347-00	ELECT	100MF 20% 160V				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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G

REF.NO.	PART NO.	DESCRIPTION	REMARK
R612	1-249-382-11	CARBON 1.2 5% 1/4W	F
R613	1-249-398-11	CARBON 27 5% 1/4W	F
R614	1-249-405-11	CARBON 100 5% 1/4W	F
R615	1-216-363-00	METAL OXIDE 0.33 5% 2W	F
R616	1-216-363-00	METAL OXIDE 0.33 5% 2W	F
R617	1-216-343-00	WIREWOUND 0.33 10% 1/2W	
R618	1-207-451-00	WIREWOUND 0.1 10% 1/2W	
R619	1-249-417-11	CARBON 1K 5% 1/4W	
R620	1-249-407-11	CARBON 150 5% 1/4W	F
R621	1-249-405-11	CARBON 100 5% 1/4W	F
R622	1-207-451-00	WIREWOUND 0.1 10% 1/2W	
R623	1-216-341-11	WIREWOUND 0.22 10% 1/2W	

<TRANSFORMER>

T601	1-424-023-11	TRANSFORMER, LINE FILTER
T602 Δ	1-424-147-11	TRANSFORMER, POWER REGULATION
T603 Δ	1-450-273-11	TRANSFORMER, POWER INSULATED

MISCELLANEOUS

Δ 1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE
Δ 1-417-175-12	RF SPLITTER
Δ 1-426-433-21	COIL, DEMAGNETIZATION
Δ 1-451-315-11	DEFLECTION YOKE (Y34FXA)
1-452-032-00	MAGNET, DISK; 10MM ϕ
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ
Δ 1-452-468-11	NECK ASSY, PICTURE TUBE (NA321)
1-543-619-11	CORE, RING
*1-558-539-21	CABLE, P-P
Δ 1-563-204-13	SOCKET, ANTENNA (PAL/SECAM)
Δ 1-575-487-11	CORD, POWER (WITH NOISE FILTER)
1-590-127-11	CABLE, PIN

V901 Δ	8-733-723-05	PICTURE TUBE (A80JYV50X)
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ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
*A-1678-023-A	BOX ASSY (RIGHT), SPEAKER	
*A-1678-024-A	BOX ASSY (LEFT), SPEAKER	
A-1678-025-A	BOX COMPLETE ASSY, WOOFER	
X-4200-058-1	CUSHION ASSY, FRONT	
X-4200-060-1	SPACER ASSY, SIDE(R)	
X-4200-061-1	SPACER ASSY, SIDE(L)	
X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
1-465-618-11	REMOTE COMMANDER (RM-811)	
*3-704-280-01	BAG, PROTECTION (STANDARD)	
*3-704-283-01	BAG (STANDARD), PROTECTION	
*4-200-451-01	CUSHION (UPPER) (ASSY)	
*4-200-452-01	CUSHION (LOWER)	
*4-200-453-01	INDIVIDUAL CARTON	
*4-200-454-01	PALLET	
*4-200-456-01	TRAY	
4-200-458-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/ GERMAN/DUTCH/PORTUGUESE)	
*4-388-135-01	BAG, PROTECTION	
*4-396-077-01	JOINT	

MEMO

Handwriting practice area with horizontal dotted lines.

ACCESSORY

RM-811

SPECIFICATIONS

Remote control system	infrared control
Power requirements	3 V dc 2 batteries IEC designation R 6 (size AA)
Dimensions	Approx. 98×36×171.1 mm
Weight	Approx. 225 g (8 oz) including batteries

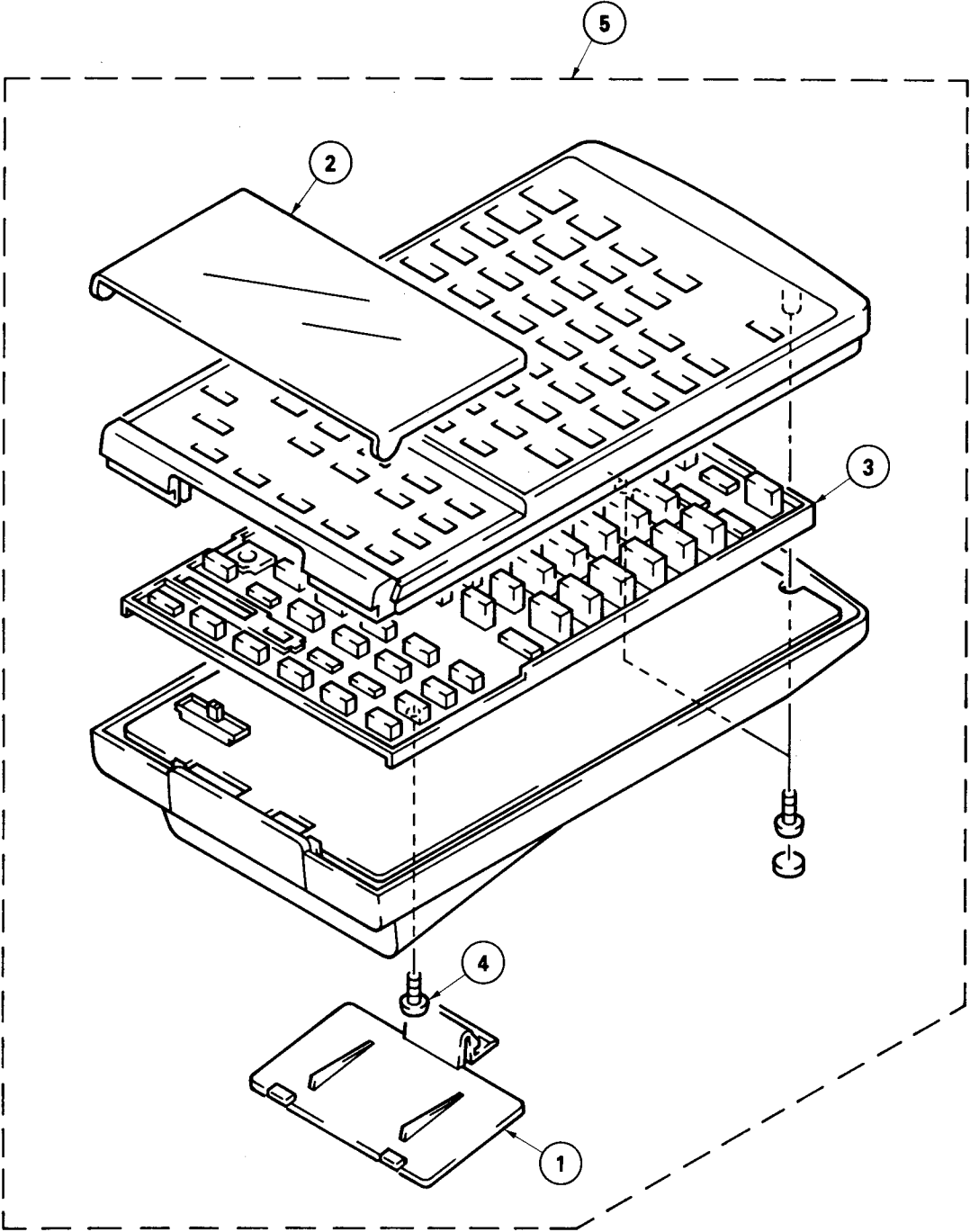
Design and specifications subject to change without notice.

REMOTE COMMANDER
SONY®

EXPLODED VIEW

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	9-997-963-01	COVER, BATTERY		4	9-997-966-01	SCREW-TAPPING M2X8	
2	9-997-964-01	COVER		5	1-465-618-11	COMMANDER, REMOTE (RM-811)	1-4
3	9-997-965-01	SWITCH RUBBER					